

The most innovative technology for Scada/HMI software.



Movicon[®] 11
MONITORING VISION AND CONTROL

GET YOUR
SUPERVISION
CLOSER TO REALITY





Progea is a leader in Scada/HMI software solutions. Originally established in 1990 in the automation software market sector, today takes pride in offering the best technology strongly oriented towards innovation sustained by a young close-knit team and constant growth in the international market of automation affirming its professional reputation further afield.

“We have chosen Progea as a global technological partner for our visualization solutions. The software technology developed by Progea has proved to be innovative and flexible so that it perfectly supports our philosophy of IT Powered Automation.”

Volker Bibelhausen
*Vice President - Head of Business Unit Automation Systems
Phoenix Contact GmbH & Co. KG*





**Solutions for: Automotive • Manufacturing • Chemical
Food & Beverage • Pharmaceutical • Utilities & Energy
Oil & Gas • Water&Wastewater • Building Automation**

The extreme openness and flexibility of the Movicon™ architecture makes it the perfect Scada/HMI supervision solution applicable to any sector in the world of automation.



Guaranteeing steady non-stop production process information flow in realtime on an enterprise-wide basis, from plant floor, facilities to business management levels, is the "real" solution for managing the production process of any modern industrial plant system, all directed at improving efficiency, increasing business with top quality products, client satisfaction and quick returns. Movicon™ 11 can make this happen by offering the best solution that no company can do without. An absolute 'must have' for maintaining, developing supervisory control, operator interface and data acquisition software. The exclusive "XML-Inside" technology is the revolutionary innovation to the Movicon™ 11 offering an all-in-one development environment for managing HMI, Scada, Soft-Logic and statistical production data analysis allowing quicker developing times to provide end users with powerful, open, flexible, easy to maintain solutions supplying enriched very simple-to-use tools.

The Movicon™ 11 technology, excellence of Scada/HMI platforms, with unrivalled openness, simplicity and performances, is the only one of its kind completely based on XML standards and emergent technologies such as the Web Services, SVG graphics, SOAP, OPC, SQL, XML, .Net and COM, and the java technology used for Web Client solutions. Movicon™ 11 is a standard software for all those operating in industrial automation, remote control and building automation. A truly universal Scada/HMI platform, independent from hardware, adaptable and deployable absolutely anywhere, wherever. Movicon™ offers an all-in-one platform deployable at all levels whether being HMI operator panels and/or mobile devices based on WinCE, or Personal Computers in big industrial plant systems with client/server redundancy architecture, with connectivity to any PLC, network and industrial or civil fieldbus. Your company's success deeply depends on how open and independent your applications are and how much time and resources they save you In planning them.

THINK TO THE FUTURE

Protect your investments with the most innovative and modern Software technology ever.

The revolutionary Movicon™ 11 gives another meaning to industrial supervision concepts. Not only does Movicon™ 11 provide you with a vast variety of tools for creating powerful visualization and control projects within a few clicks, it also incorporates the most innovative technologies to consent your application easy integration with the entire world, both in distributing information towards enterprise information management systems (MES, ERP), and distributing information to local or remote Clients across the web. Your plant system can be accessed safely from any part of the world and with any platform, thanks to the real "Web-enabled" architecture, exploiting java security.

Deploying Movicon™ 11 will allow you to realize any type of supervision application, be it simple or complex, without compromising anything. From I/O control to local HMI and visualization systems, from powerful Scada supervision and control applications to data acquisition and analysis systems for managing and optimizing productivity, and pager systems for notifying on-call duty personnel by remote control.

Web-enabled management to/from anywhere: just one information flow with open and secure multi-system connectivity created with just the one development platform. System integration is now a reality with Movicon™ 11.



NO MATTER WHAT YOU BUILD

We'll help you
do it much quicker.

The software engineering costs of an automation project alone can estimate to over 80% of the total expenditure for an average construction job. This enough is good reason to use planning tools capable of reducing development times accompanied by world class assistance from expert support and technical help services to protect your investment. Based on innovative concepts Movicon™ 11 has been designed just for this. Progea's intense Research and Development, united with their vast experience in supervision software, has empowered them to reach the highest peaks of quality and technology available in today's world of software for industrial automation. Their aim to provide an all-in-one platform has become a company standard realized with Movicon™ 11, where ideas and innovations amalgamate to form a concrete technological basis. These new technologies will help you reduce software ownership costs (training, support and maintenance) and drastically reduce development and application debug times by being aided with the extra intuitiveness and userfriendliness that even novice users will find it not just a pleasure but remarkably easy to use. Reducing development times is paramount for any company using Scada/HMI systems and this is just what Movicon™ 11 will help you do. The Movicon™ 11 tools are especially designed to safeguard your time and keep your work safe.



ADVANCED TECHNOLOGY AT YOUR FINGERTIPS

The Movicon™ 11 workspace is the result of indepth research in software ergonomics with the scope to make the product simple and joy to use. Beating personal best development times are easy when you have every imaginable tool and functionality ready at easy reach within the one same environment. Movicon™ 11 outshines any other product available

today for simplicity-of-use and intuitivity with intelligent Editors, integrated auto-configurators, Tag importer tools. Planning becomes a breath-of-fresh-air and immediate with Movicon™ 11. Get great visual impact within a few clicks and be rest assured that your investments are well safeguarded.



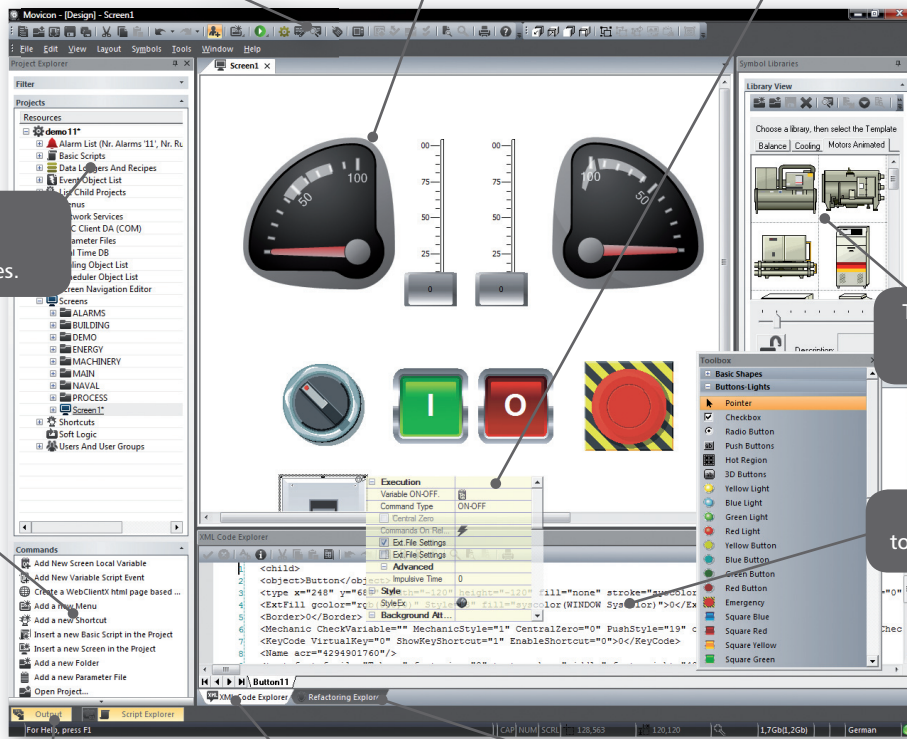
Position where-you-like Toolbars and Status Bar with system information.

Graphics Editor and workspace, Screens or Logic IEC1131.

Properties Window. Simple and intuitive to use for configuring selected objects and resources.

Project Explorer. Easy access to all project resources.

Drop-down Command panel relating to the resource selected.



Toolbox, Object Library, Graphical Symbols and Templates.

XML Editor: access to object XML structures.

Output window for tracing all operations in runtime or development mode.

Integrated Logic Editor (VBA Script, VB.Net or IL Logic).

Refactoring, Corrects errors automatically.

STRONG POINTS

➔ Scalability.

Movicon™ 11 is an all in one software platform from Windows™ CE to Windows™ Vista. Only one platform is all you'll ever need in your company for micro applications in HMI terminals or/ and medium and big applications for manufacturing process plant systems.

➔ Openness.

Movicon™ 11 is completely based on XML. Projects are simple XML files, which can be opened and edited with any other Editor. Fully open to integration and customization with the world of Windows™ applications. Projects can be grouped in hierarchical structures, distributed and shared.

➔ Security.

Movicon™ 11 guarantees the top data security. Projects, though based on XML, can be encrypted with 128 bit coding algorithms. The platform is FDA 21 CFR Part 11 compliant for creating FDA ready applications with extreme ease. The User Password manager guarantees safe access by level and/or area. The built-in Visual Source Safe guarantees safeguarded work at all times.

➔ Standards.

Movicon™ 11 is completely based on standard technologies to ensure that your investments are safeguarded. The XML, ODBC, OPC, VBA, SOAP, Web Services, TCP-IP and SQL technologies are all built-in to guarantee easy data access and transparency.

➔ Performances.

Movicon™ 11 enhances performances by renewing its "exception-based" technology concept and Graphics engine now based on SVG (Scalable Vectorial Graphics).

➔ Connectivity.

Movicon™ 11 has implemented a new generation of communication drivers with automatic Tag importer, remote connectivity via modem, multi-station concept for point-to-point protocols, bridging concept for teleservices in PLCs, immediate cable testing. These drivers guarantee full configurability and possibility to communicate on event with custom VBA logic. Not only do you get a free and included driver library,



Movicon™ 11 also provides you with total connectivity via OPC DA, using both the OPC DA and OPC XML DA technologies as Client and Server.

➔ Very Efficient Networking.

Movicon™ 11 has a sophisticated Networking technology, capable of giving you network connectivity between any HMI or Scada station in an instant. Any Movicon application type can be a networking server for any other station, (WinCE or WinXP), and client stations are connectable within a few clicks. Efficiency and performances are guaranteed with "event-driven" architecture and emergent multiplatform technologies such as SOAP (Simple Object Access Protocol) and SOA (Service Oriented Application). Movicon™ projects can be Server and Client indifferently. Client projects can be distributed and run locally on the client while residing on the central server. The Movicon™ networking can be applied to any enterprise network integration according to network administrator needs: TCP-IP as well as UDP and HTTP protocols are also supported. The networking feature automatically manages remote connections via RAS. Movicon™ 11 integrates the Web Services technology, consenting information distribution support to public networks (internet).

➔ Web-enabled Architecture.

Movicon™ 11 has renewed Web Client technology. The innovative architecture, based on JAVA (integrating perfectly with XML, SVG, Web Services technologies), consents server access using internet browsers in any platform (Windows™, Linux, Palm, PocketPC and Javaphones thanks to J2ME). Multiuser, bidirectionality, performances and security are guaranteed for cost and maintenance effectiveness. Servers can be both Windows™ Vista/XP and Windows™ CE.

➔ SoftLogic IEC 61131-3.

Movicon™ 11 integrates the Logicon SoftPLC to guarantee an all-rolled-into-one programming environment whether on the SCADA/HMI side or SoftPLC side. This means that just the one Tag DB synchronized using just the one editor, saving development time while enhancing potentiality significantly. The SoftLogic has a powerful programming environment with the 5 IEC1131 languages, powerful debug and documentation functions, a deterministic and a real-time runtime, for both Win32 and WinCE.

INTELLIGENT EDITOR

Simple and intuitive.

Combining power with simplicity is not an easy thing to do. Often systems easy to use are restricted in what they can do. On the other hand, those which are very powerful tend to be too complex to use. This is where Movicon™ steps in, the only Scada/HMI platform put under severe usability and ergonomic tests (in collaboration with the university computer science research departments) and passed with top grades. Movicon™ has been designed intelligently to fit all user needs to be more productive in less time and effort, with maximum deployment flexibility capacity without restricting potentiality. The Movicon workspace is transparent, pleasant and intuitive. All the tools are ready-to-use at hands reach. Configuring is entirely based on using the vast range of object libraries and resources, all fully customizable through their properties window. It can be moved, positioned and docked as pleased and provides all the properties divided logically by group and sub-groups. The vast number of configuration properties has been purposely provided to free you from writing endless code (scripts), saving you time in planning, project debugging and maintenance.

The main Movicon™ 11 Intelligent Editor features are:

- **One single built-in Editor extremely simple and easy-to-use.** The one same Editor can be used with Windows™ Vista/XP or Windows™ CE or Web Client. No need to install additional components for creating applications.
- **Configurable Workspace,** floating or conventional windows. Shortcut commands and quick-to-configure pop-up windows.
- **Configuring in Easy-mode** by displaying only the most common properties for user's disposition to further simplify system use.

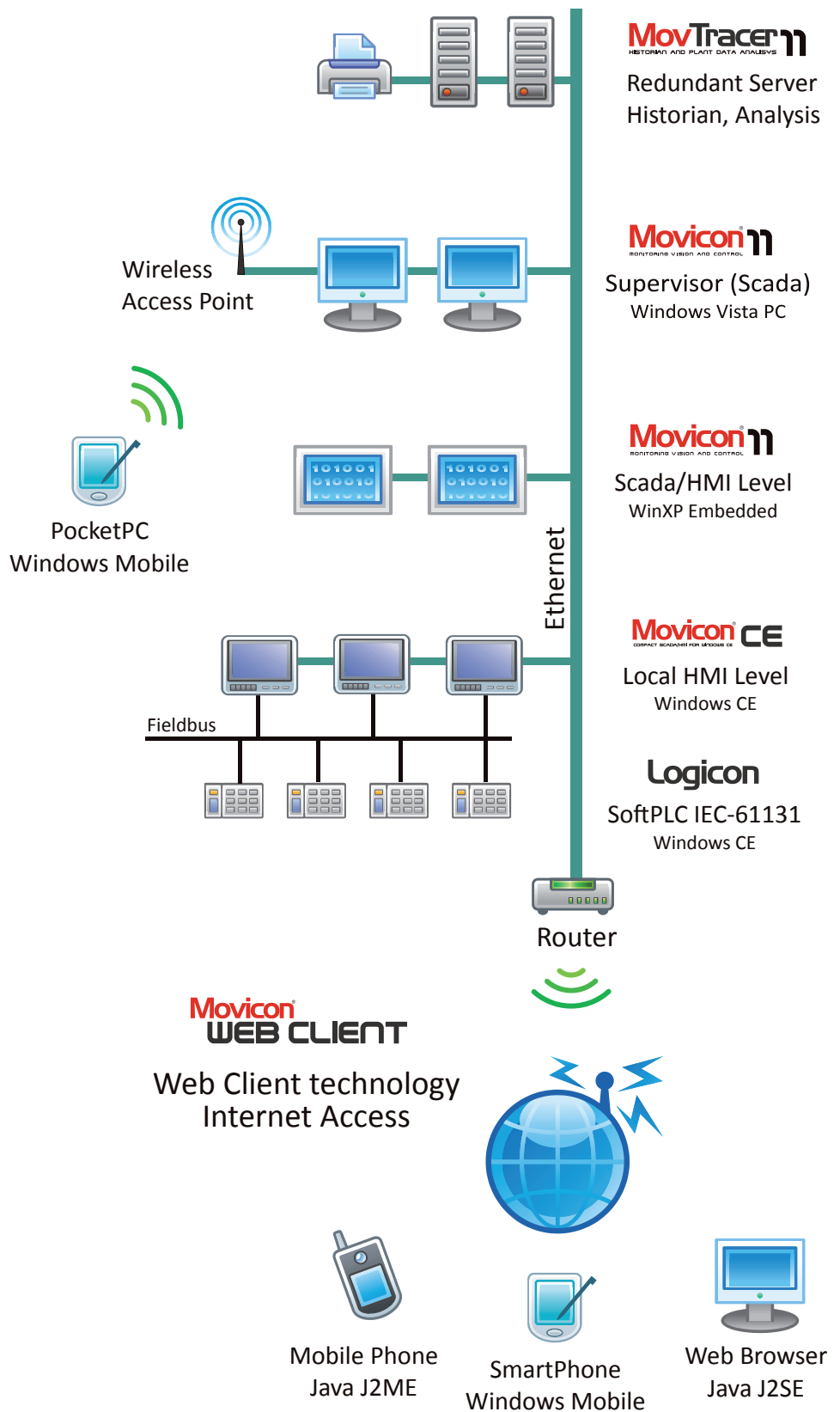


- **Refactoring,** tools for automatic correcting wrongly assigned tags to objects and missing text strings.
- **Enhanced Cross Reference,** built-in and interactive.
- **Auto-create projects** using wizards with project templates.
- **Projects based on XML and open.** "XML code" window for displaying and modifying objects directly in XML text. Option to create macros, internally and externally, for auto-creating projects or parts of projects in custom mode. Projects can be crypted whenever required.
- **Object Programming Environment** with powerful vector graphics.
- **Symbol and Template libraries.** Power Templates© technology for managing complex object libraries with integrated VBA code. Template management also provided for Alarms, Data Loggers, Events and Schedulers.
- **Distributed project planning** made possible with the "Child Project" technology, which consents dynamic decentralized project linking and integration, whether local or in network.
- **Ms Visual Source Safe™ fully integrated and native,** the best solution for distributed planning with security and project modification traceability.
- **Deliberately designed** with built-in support to the FDA CFR21 Part 11 normative.
- **Native and integrated I/O driver library,** with automatic Tag importing from PLC with direct link to device. Free I/O Driver library included which can be added to and customized with SDK.
- **Powerful on-line Debugger** with functions to analyse and simulate projects both locally and in remote.
- **Built-in IEC-61131-3 SoftLogic.**
- **"On Line" project modifications,** local or remote.

THE ADVANTAGES OF BEING FLEXIBLE.

An integrated all-in-one environment for every automation project need.

Today's automation world cannot rotate without being flexible. Flexibility means being able to deliver client demands without sacrificing one's work and knowhow. Movicon™ 11 offers you major guarantee in safeguarding your investments and keeping you competitive by using just the all-rolled-into-one software platform. Just this one software is all you'll ever need in your enterprise to satisfy every automation application need. This means from control levels (PLC, HMI) to Scada/MES Enterprise-wide levels. Movicon™ 11 is a real and truly flexible and versatile platform, capable of adapting to every application need in modern automation. Its flexibility is your ticket to success, enabling you to reduce company expenditures and get fast returns, simply because only the one visualization and control software is needed however and wherever deployed. This also means you save on time, money in learning, updating and the workforce needed. Don't settle for less than the best.

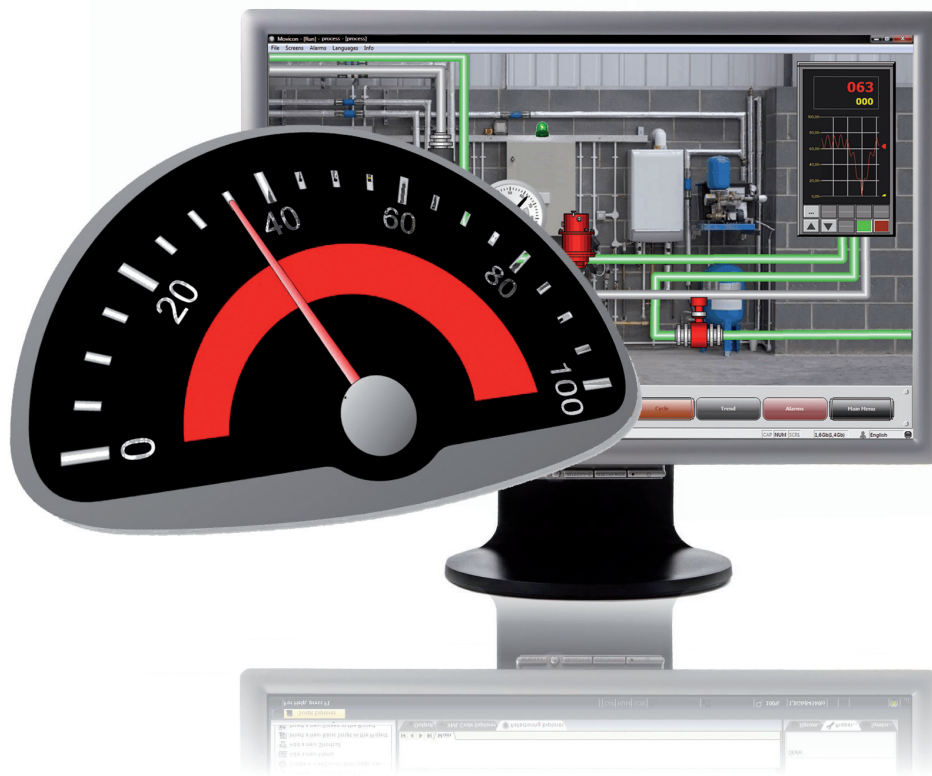


“CAPTIVATING” VISUALIZATION

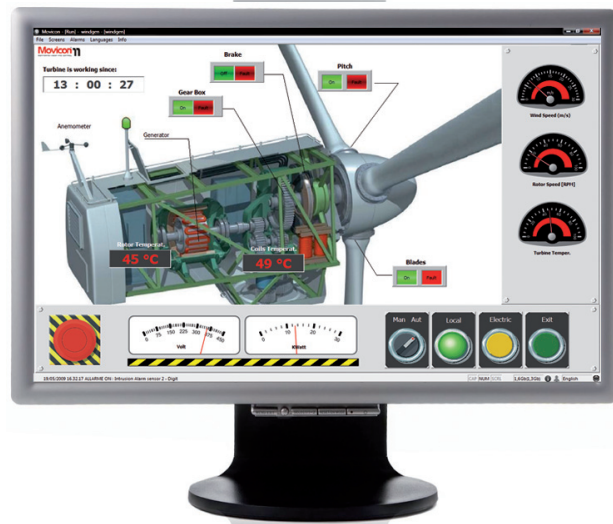
More powerful
graphics,
more application
intuitivity.

To visualize production processes is paramount to any supervision system. The more transparent it becomes the more efficient factory management is. Unlike before, users explicitly demand a more realistic presentation of their plant. They want that immediate look, feel and touch experience to promote that extra sensory perception. They want to be there but not be there. Real life, live and working plants on screen. The real thing can only be achieved with Movicon™ 11, a supreme leader in this field, offering you a vast range of the most powerful graphics ever:

- **Vectorial Graphics Editor** and SVG based technology (Scalable Vectorial Graphics).
- **Real object and symbol oriented programming**, “point & click” even the most complex objects.
- **Screens visualized in hierarchical tree structures** with intuitive selecting. Symbols do not need ungrouping and regrouping in order to configure their components, no matter how complex they are.
- **Dynamic property Explorer** and quick access to all properties, tags or symbol code.
- **Import-Export** vectorial symbols to/from the most popular Windows™ vector formats.
- **Supports all bitmap graphic files** such as BMP, GIF, JPG, TIF, PNG and WMF and EMF files.
- **ToolBox** containing prebuilt and multifunctional objects with accurately detailed graphics.



- **Analog viewer library** integrated with eye-catching and realistic graphics.
- **Powerful graphical animations**, with 16 dynamic animation functions configurable in all object properties. Each object is extendable through the appropriate VBA rapped into API graphics.
- **Complete set of functions**, for zooming, grids, alignments, multiple distributions, layer order, tab order, multi-selection property settings and much more.
- **Library rich in pre-built symbol graphics**, organized in a multitude of various categories, ready for immediate previewing and Drag & Dropping on screen. Option to create your own symbols and new categories.
- **Exclusive Power Templates[®] technology**, consents to creating symbols with preset functions, with simple animations associations or with powerful VBA script functions integrated. The Power Template technology makes it possible to auto-create projects simply by inserting symbols on screens.
- **Auto-resizing to screen or window resolution**, whether being vectorial or bitmap graphics.
- **Built-in support to multi-monitor systems**.
- **Graphical object XML structures can be inspected** internally and from external programs and editors.
- **Graphics Editor for managing menus** (pop-up or bar menu) and assigning keyboard commands.
- **Support to heredity and public symbol modification** propagation.
- **Supports different scenarios**, "Styles" and "Themes" technologies.
- **Built-in native objects for visualizing images** transmitted from video cameras, both in WinCE and WebClient.

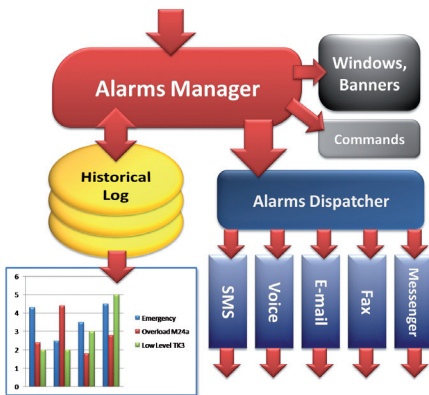


ALARMS: UNDER COMPLETE CONTROL.

Monitoring, Archiving,
Notifying and Analysing:
it's all there,
nothing left out.



The powerful Movicon™ 11 alarm management guarantees maximum precision in managing events and provides users with a rich source of information consenting continuous and immediate feedback on how the plant is running, to improve on efficiency and reduce production downtimes. The Alarms are managed for default according to the ISA S-18 normative, but are completely customizable and manageable as objects with numerous properties adaptable to every need. The activation thresholds, fixed or changeable, determine alarm activation statuses (ON, OFF, ACK and RST), displayed and managed as graphical objects in the Active Alarm window with



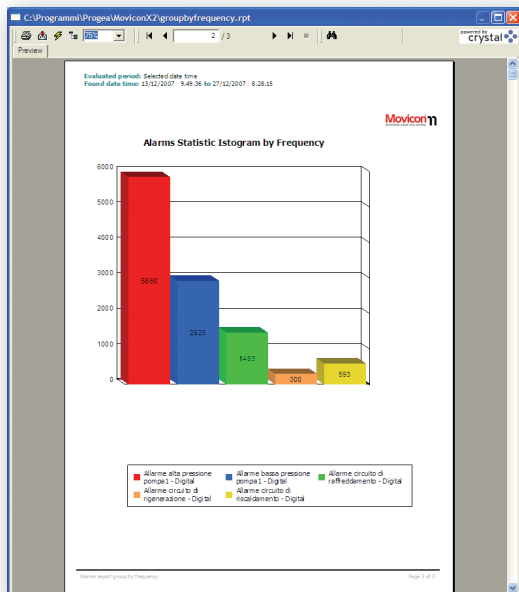
numerous filter options (by time, area, priority, period, etc.). Includes option to link dynamic help and guidelines from external files (CHM, HTML, PDF). The alarms can be configured with PC or "TimeStamp" tag value activation times. The many properties allow you to set colors, alarm or message managements, speeching (text-to-speech), printing, command executions, and more. The alarm history management (Historical Log) automatically records all events (Alarms, Driver or System Events) in archives in relational database tables using the powerful ODBC Manager or in text or XML files. The data archive (Ms SQL Server for default) guarantees maximum openness, consenting file management in SQL Servers and others (such as Oracle) with the topmost transparency to user and project. The historical log files are recycled until they reach their preset life spans in the project's properties. The purpose-built Historical Log window automatically stores and forwards data, displayed in the preferred order format (chronological, by type, by priority order etc.). The alarms support the "Template technology, which consents to parameterizing repetitive alarms, with tools and wizards to develop and configure them much faster. Monitoring, Archiving, Notifying and Analysing: it's all there, nothing left out.

Alarm Dispatcher

Unmanned or remote plant systems must guarantee and relay information immediately to on-call duty staff to prevent prolonged production downtimes and delayed production deadlines. All project alarms are configurable for this situation type to notify users. The Movicon™ Alarm Dispatcher, notifies events, sends alarm alerts to staff using the Voice technology (Text-To-Speech telephone notifications with voice synthesis), with SMS, E-Mail or by Fax. The supported Ms Messenger is a 'must have' for plant systems connected in net 24/24 (local or web network). Notifications are sent to assigned Users or User Groups. Messages can be sent according to customizable time schedules, calendar dates, work shifts, and on-call duty staff shifts.

Analysing, Filtering, Ordering by

The Alarm Window and the Historical Log Window are tools for displaying active or filed alarms. They can be inserted as objects in any screen and configured like any other object from the toolbox. Alarm viewer objects can be created with different symbol and template styles and added to the symbol libraries as new objects. Movicon™ consents total alarm window operativity and configurability



| Alarm Text | Alarm On | Alarm Off | Duration | Priority | Sta... |
|-----------------------|---------------------|---------------------|----------|----------|--------|
| Emergency On | 14/01/2008 10:33:26 | 14/01/2008 10:33:27 | 00:00:01 | 1 | OFF |
| Laser Door Opened | 07/01/2008 10:39:35 | | | 1 | ON |
| ALARM ON | 2008-01-07 10:39:35 | | | | |
| ALARM ON | 2008-01-07 10:39:18 | | | | |
| Fault Control Station | 07/01/2008 10:39:20 | | | 1 | ON |
| ALARM ON | 2008-01-07 10:39:20 | | | | |
| ALARM ON | 2008-01-07 10:39:18 | | | | |

with direct commands or with custom commands. The display windows can be connected to network servers, allowing viewer objects to become "client" objects for displaying active network server alarms and/or their history. The alarm data columns can be configured to suit any kind of need. Active Alarms can be selected to display their history directly in the Alarm window in order to view all occurrences. This feature is handy for simplifying event analysis activities to improve productivity. All 'order by' and 'filter' options are provided to display information in the most transparent and intuitive way possible.

Programmed Maintenance and instant guidelines

Movicon™ simplifies programmed maintenance management by allowing the user to activate alarms not only with the associated variable's real value but also with its duration 'statistics' value. This makes it extremely simple to set activation thresholds in set-points. In relation with the variable's total ON time. The system operator's work is made easier by being able to associate external files for activating the use of userfriendly help files (HTML), movie files (.AVI), sound files (.WAV) or BMP files.

Production Statistical Downtime Analysis

Tools capable of statically analysing machine downtimes during production runtimes are crucial to factory production and maintenance managers. The data analysis quickly singles out any critical points within the production process to allow plant system efficiency and productivity improvements. Your productivity cannot be improved without this information. This powerful tool is used for managing events and production downtimes analytically, to generate reports on total or partial plant downtimes. This information, in table, pie or histogram chart format, provides a list of alarm occurrences for the time frame specified and classification by "Duration" (total times of all the occurrences of the same type) or by "Frequency" (Total number of occurrences of the same type). These reports can be displayed and printed as desired, on command or on event, and exported in various formats (Excel, PDF, HTML). These reports provide all the detailed information you will ever need to know on each single alarm analyzed.

SECURE DATA ALWAYS

Process data encryption, safe storage in whatever relational database you prefer.



Supervision systems collect, record and store process data for further use. This data guarantees production managers all the information they need for analysing with the scope to improve, pinpoint and isolate anomalous behaviour. The Scada's scope is to consent data aggregation in the simplest way possible. To allow the setting up of different recording and file management infrastructures in the best suited way deemed possible. Movicon™ 11 provides all the tools you will ever need to accomplish this. Based on the concepts of simplicity, reliability and openness. Movicon™ has

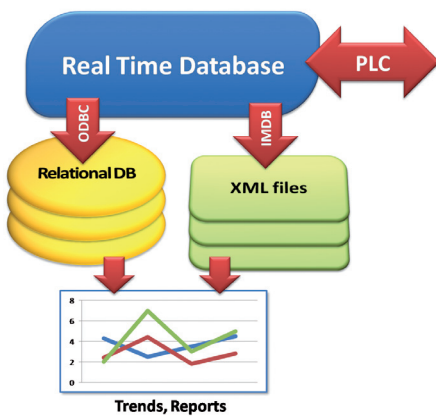
three recording engines, based on an ODBC Manager model to guarantee maximum performance in data precision and openness to also choose the most suitable data format. Movicon™ uses the Microsoft SQL Server™ for default, but supports all relational DBs via ODBC, if not specified otherwise. Each of the three engines has different tasks. One records process data using the Data Logger resource, another logs events while the remaining one is assigned the powerful and sophisticated task of the variable Tracing management (Audit Trail). As an alternative to the ODBC recording engines, Movicon™ also offers the use of an IMDB manager (In Memory DB) which permits you to record data (Data Loggers, Events or any other data) in simple text format files (.DAT or .XML). These files can be encrypted to allow recorded data viewing exclusively through the Movicon™ controlled access modalities. The historical log management in IMDB can also be activated in part, intended for Embedded systems (WinCE), or those which require encrypted data. Secure data always
Process data encryption, safe storage in whatever relational database you prefer.

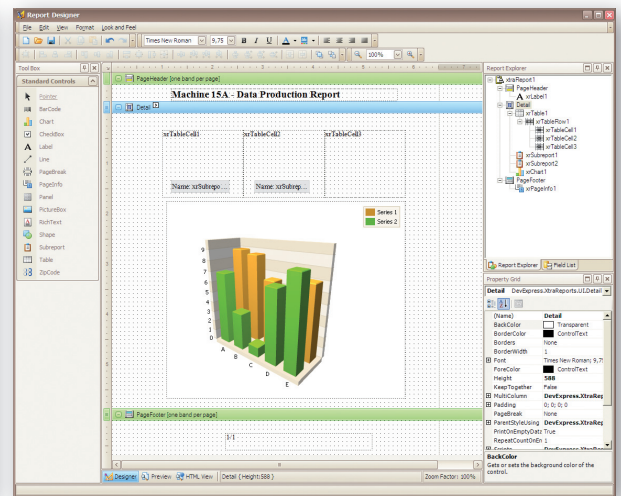
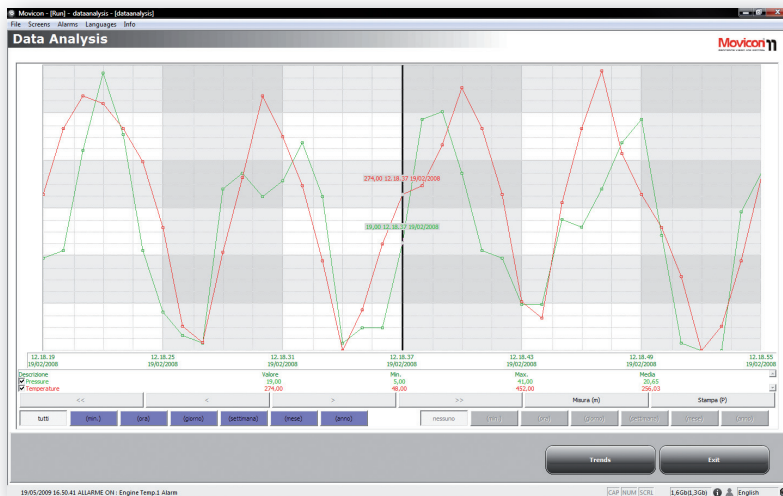
Data Loggers.

As the main tool, the Data Loggers permit simple and quick process data recording. DB table records can be executed on preset time frequencies, event or variations (with low band rates). Data recorded on DB is then automatically available in the project through graphical objects predisposed with this task, which includes Database table display windows, grids, Trends, Reports.

Reports.

Movicon™ has unsurpassed enhanced Report management. As with earlier versions, you can still use the Crystal Report© tool for generating .RPT files for generating plant system management reports, displayed and printed by Movicon™ with the built-in Crystal Report© Engine. This feature now has an additional and powerful built-in Report Generator based on the .Net technology, which consents powerful reports to be generated visually with statistical and graphical chart and graph functions to further simplify report generating within the same project. The Movicon™ Report Designer is one of the most powerful reporting tools to have in Scada systems.





Recipes.

The production recipes are object oriented and use the same recording techniques performed by the Data Loggers. The production recipes consent you to manage data archives containing working process parameters relating to manufactured products. Upon selecting the product desired, the parameter values relating to the plant's variables will activate. The recipe management has been made extremely easier to handle in Movicon™ with objects and wizard technology: simply create a "recipe" object, assign it the necessary variables and then just press the "wizard" command to automatically generate the recipe's display window graphics with user interface through which you can completely customize as desired by setting its various properties (styles, colors, etc.). As an alternative the simple recipe display window object in grid format also consents you to manage recipe data using the more conventional viewing methods for further simplicity and all in automatic.

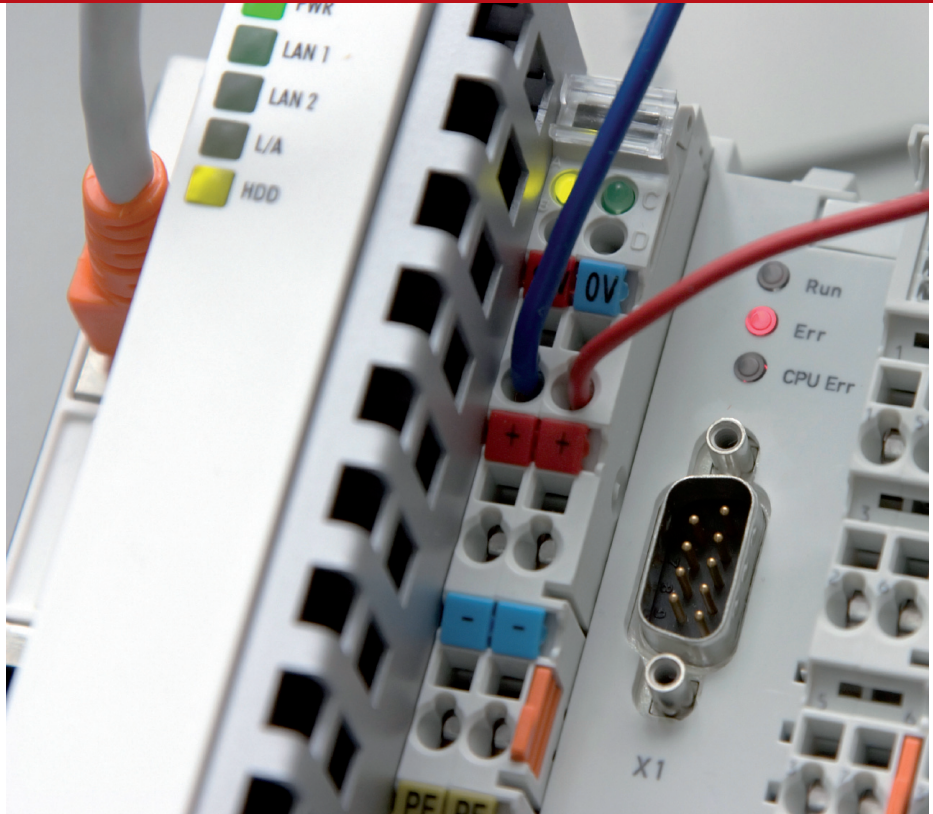
Trends and Data Analysis.

The Trends are tightly linked to the Data Loggers and are graphical objects predisposed for displaying curves relating to process data behaviour. These Trends can be dynamical and historical (Run-Pause) and prove to be a sophisticated functionality for displaying values graphically and customizing pens and legends in many varieties. The Trends can be linked to Data Loggers directly and consent data displays by time range or other filter types, zoom, pen selections and logarithm scales. They can be shrunk to fit entirely in one screen, printed and much more. They can be completely configured in runtime to become truly powerful Trend Template objects using the VBA functions. The Data Analysis feature works more thoroughly than the Trends and provides sophisticated graphical representations of historical data recorded by the Data Loggers.

The Data Analysis object can quickly analyse data according to prefixed time ranges, different comparisons and overlapping curves. For instance, an analysis based on sample curves or analysis comparing different time ranges (ie. Confronting one year's values with the previous year), will measure at an instance by tracing lines between various points in the graphical data analysis image to highlight the value differences.

NO LIMITS CONNECTIVITY

Excellent built-in I/O
Drivers and Networking
with light speed
communications.



Communicating in the fast lane safely at top speed is essential for any automation system. Supervision systems are meeting points of all process data. The crossroads of non-stop production information flow between enterprise-wide systems. Communication is a strategic role deeply rooted in Movicon™ 11 performed by tools to make information flow quicker, smoother and more transparent than ever before. Movicon™ 11 also provides users a rich library of I/O Drivers, native, integrated and all included free within the product. Communication with control systems (PLC, CNC, Instrumentation, Fieldbus) has never been so quick to configure and so quick to perform. Helpful Wizards are on hand to automatically import and configure project variables directly from the PLC, saving you more time and the risk of errors. The I/O Driver library supports all PLCs and systems found on the market today, and can be added to by third parties using a suitable SDK.

OPC Technology.

Along with the I/O Drivers, Movicon™ has fully integrated the OPC technology (OLE for Process Control) both in OPC Client and OPC Server modality for both DA (COM) and XML DA specifications. Connectivity to OPC Servers is guided

and dead simple, cutting configuration times by half with automatic Tag creating in OPC Server items. Movicon™ is OPC Foundation certified where Progea is an active member.



Networking Supremacy.

The Client/Server architecture is guaranteed by built-in functionalities that consent distribution of dynamic information and projects across networks. The Movicon™ Networking technology, based on the Web Services and SOAP, is the most advanced around today. Information (tags) sharing between the Movicon™ stations occurs directly upon double-clicking the Client station. The Server stations can be based on Windows™ Vista/XP or Windows™ CE Windows indifferently. Communication in net is based on the TCP-IP transport for default and can be completely customized and adapted to any need imposed by user administrator networks, by simply changing the project's Network Server properties as required. Excellent built-in I/O Drivers and Networking with light speed communications.

RealTime I/O ODBC Link.

Movicon™ has a very important feature that consents connectivity towards enterprise-wide information systems: each tag has a read-write connection property to an external relational DB. All or part of the project's RealTime DB can be shared in automatic and is transparent, allowing real-time information sharing of plant floor information with business managerial systems.

Integration Openness and SDK.

Movicon™ permits total third party component and object management, such as DLL, ActiveX or OCX, which can also be used for managing communications with the system. A purpose-designed SDK driver permits realtime Tags to be accessed through Shared Memory. Movicon™ also supports the OLE technology by registering the application in the Windows™ ROT, so that other applications can manipulate projects in runtime.

TOP LEVEL PROTECTION

System access with maximum security and FDA compliancy.

The Movicon[™] 11 applications guarantee maximum security and reliability. The User and Password management, complete and robust, has been explicitly designed to guarantee that projects are realized with simplicity with integration compliant to FDA 21CFR part 11 regulations. Movicon[™] 11 ensures maximum data and system access protection with 1024 User levels and 16 access levels. Project users can be shared with the Window[™] Domain, allowing the option to integrate and centralize user data profiles. All the security criteria have been fully integrated and configurable with a few clicks to include the Electronic Signature management, unauthorized and undesired access attempts controls, password expiries, automatic log-off and the Audit Trail management. Movicon[™] also lets you define different protection levels and traceability directly inside each single Tag, independently from the commands they have been associated with. Furthermore, Movicon[™] supports the Windows[™] Vista/XP Services and consents total or partial blocked access to the Windows[™] desktop. Data is recorded on safe relational databases (ie. SQL Server or Oracle) and in propriety 128 bit encryption format.

User Management.

Movicon[™] consents user data profiles to be defined with mixed configurations of project user affiliations, runtime administrator users, Windows[™] domain users and linked "Child" project users. User access privileges can be associated not only to all actions and command functions but to each single project Tag as well.



Designed for **FDA**
21 CFR Part 11

FDA 21CFR Part 11.

Movicon[™] 11 has complete 21CFR Part 11 compliancy, ready to use for creating FDA valid projects with great ease for sophisticated Scada systems and simple HMI based on Windows[™] CE.

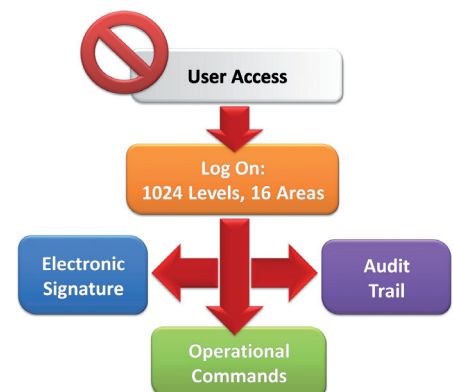
Built-in Visual SourceSafe.

Movicon[™] 11 has built-in native support to Microsoft Visual SourceSafe 6.0, a powerful tool which consents projects to be managed and accessed across networks. This is very helpful for teams of developers working on the same project at different angled and locations. By using this tool the multiuser project can be worked on in full security, where each modification can be traced back to its origin and other project versions can be retrieved. The development project teams are also managed with top security levels.

Powerful Redundancy management for Mission Critical applications.

Movicon[™] 11 guarantees reliability deriving from over 15 years experience operating in the industrial automation sector. Mission Critical applications can exploit the powerful integrated Redundancy functions,

where two Movicon[™] Servers work together in hot backup mode to manage and keep applications safe under all circumstances. The Movicon[™] redundancy is completely automatic and transparent. It manages data synchronization for both historical and dynamic data, guaranteeing the most efficient and safe data integrity in any situation, even those most onerous and is completely fail-safe.



POWERFUL BUILT-IN FUNCTIONS

An Editor rich in functionalities and objects means project development time saved writing less code.



Every developer is well aware how essential it is to have a wide range of tools left to their discretion in order to create and deliver projects to meet end client needs and satisfaction. Movicon™ 11 has been designed to do just this by offering a wide range of functionalities, native and integrated in the platform to cover every developer need. These include a great variety of resources and objects, pre-built and totally configurable to satisfy every industrial and civil supervision need. These

features have been designed to help the user create sophisticated projects in the simplest and easiest guided way possible.

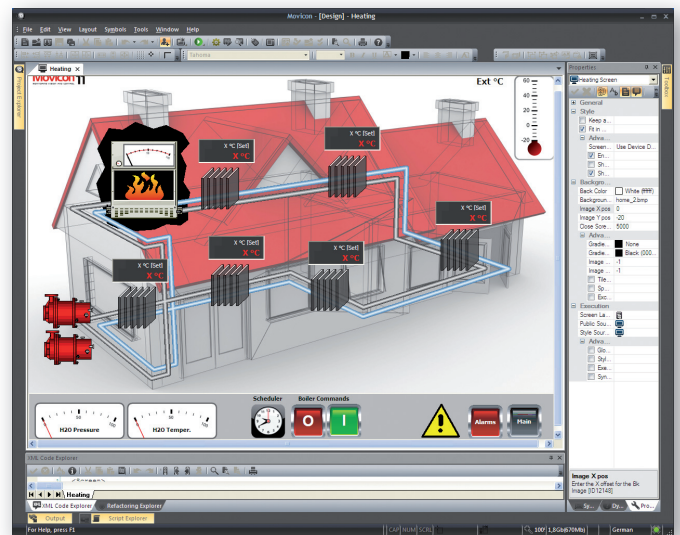
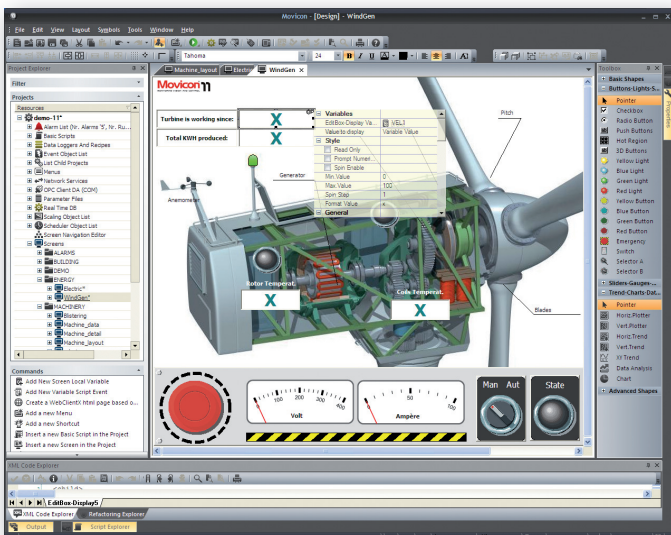
➤ Schedulers.

The scheduler objects are innovation at its best to offer you numerous functionalities for maximum configurability. These objects are executable in runtime based on different presettable time ranges. The Movicon™ schedulers manage different calendar dates and plans, with

freely configurable time formats, for any command. The user is free to decide which commands or events to Schedule for activation in their own calendar date plan or holiday plans. The schedulers are powerful visual planners that are fully supported in Web Client and Windows CE runtime as well.

➤ Event Objects.

All the project commands can be managed through event objects within



the project. Command lists can be defined and configured through the wide range of functionalities and actions provided. Event objects are great time savers. No need to write code because command actions can be executed within the project in association to events generated by variables (tags) or actions associated to command objects (ie. Buttons, menus, etc).

➔ **Touch Screen Functions.**

The complete support of HMI devices with Touch Screens is a fundamental requisite for supervisory systems. All objects needing data settings can be associated to a virtual system keypad (NumPad or Alphanum Pad) or to a custom replacement. Support to Touch Screens is totally automatic, easy and effortless with the purposely provided fully customizable Movicon™ graphics.

➔ **Keyboard Management.**

Keyboard management generally consents you to create commands in association to keys or combo-keys known as 'Accelerators' or 'shortcuts'. These very useful functions are indispensable

to systems without mouse pointer devices or touch screens. Movicon™ 11 allows you to manage commands in the project's 'shortcut' resource to associate the keys directly within the graphical object properties to create command equivalences.

➔ **Scaling and Statistics in Tags.**

Tags consent to intelligent scaling parameter definitions (engineering unit conversions). The purpose-built 'Scaling' objects permit further conversions, allowing the more complicated "non linear conversions" to be managed with simplicity. In addition, all tags allow you to manage statistic values such as min and max, average, total time ON values in daily, monthly and yearly parameters.

➔ **Editor Menu.**

Movicon™ provides you with its usual "Menu" resource allowing you to create menu objects and submenus structured on managing commands in the project's user interface. Popup menus or custom system menus committed to the active window can be edited visually.

➔ **Speech Recognition.**

Movicon™ supports the Speech Recognition functionality that can be defined through the Shortcut objects to allow commands, associated to keyboard key strokes, to also activate on vocal command once acknowledged and confirmed by the integrated Speech Recognition system.

➔ **IP Camera support.**

Movicon™ supports a very handy native and integrated video IP camera function in ethernet. The IP camera viewer object, found in the Movicon™ 11 toolbox, when used on screen shows streaming video images from the IP video camera and is managed like all other objects. The great advantage you get from using this feature is that images can be transmitted via Web or shown in HMI panels based on Windows CE, without any effort or complications.



MULTILANGUAGE PROJECTS

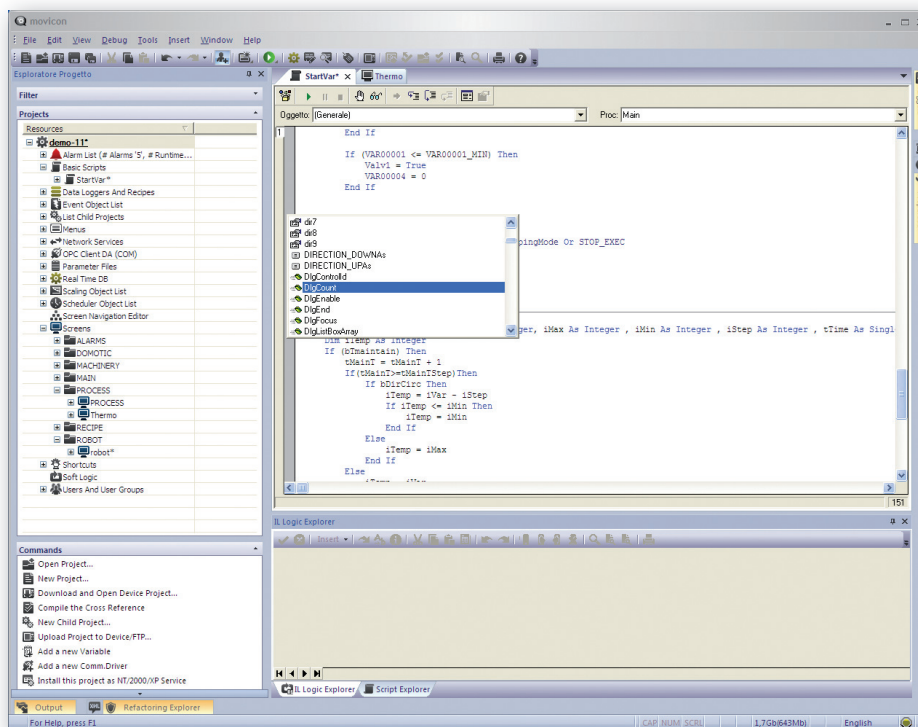
The Movicon™ 11 projects have crossed their borders and gone International. The number of different languages that each Movicon™ 11 project can contain is virtually unlimited. Projects can be changed to any character type (Unicode also with UTF-16 coding for Asian and Arabic characters). The texts are managed in a String Table within the project, which is completely compatible



with copying & pasting directly from the Ms Excel™ Editor. Each language corresponds to an XML text file. Each language can be changed and activated straight away, whether in Editor or Runtime mode. Specific languages can be activated for specific users in the Log for so that the system Font will automatically change according to user logged in.

INTEGRATED LANGUAGES

Powerful VBA engine, multi-threading functions and Power Templates. AWL language provided for the less expert user.



Object oriented programming may not always be able to deliver solutions to cover the entire complexity of out-of-the-norm requirements. Even though one of Scada platform's purpose in life is to avoid using or reducing code and script to a minimum, this is not always achievable. In certain situations you have no choice but to use code and script for performing calculations, functions or customizing the more complex functionalities, such as those used for accessing databases, managing ActiveX or OCX, or managing special peripherals, algorithms, calculation functions, and other. This is not the case with Movicon™ 11. Whatever your mission, it can be realized with Movicon™ 11 thanks to the built-in languages which offer the best and unmatched solutions whatever your need may be.

VBA Language.

Movicon™ 11 has a powerful integrated VBA engine, capable of executing code perfectly compatible with the VBA standard (Visual Basic for Application™) with the use of a powerful and immense range of APIs. Properties, events and methods are available for customizing any system functionality type.

The VBA scripts can be executed as normal routines or encapsulated in objects in response to events, being graphical objects, alarm objects, templates, data loggers just to mention a few. The Movicon™ 11 VBA language guarantees multithreading, meaning that different VBA script can be executed at the same time, offering unrivaled solutions that no other system using standard language can offer. The powerful debugger can also perform step-by-step, break-points, to name but a few. The new Movicon™ 11 VBA engine supports VB.Net technology, so that you can now use VB.Net syntax and manage software components based on the .Net technology. The Movicon™ 11 VBA Engine is also integrated in versions for Windows™ CE, further guaranteeing superior performances and maintenance of the same project in WinCE systems as well.

Expression Generator.

Movicon™ 11 provides a VBA Expression Generator to edit expressions directly in objects as an alternative to using Tags.

Logic Language.

Movicon™ 11 integrates another language type defined as the IL logic. This language is sequential combinatory type (CLR

Combined Logic Result) typically used by PLCs (Instruction lists or AWL) a Movicon™ 11 applied concept. A powerful instruction set permits you to manage logics and calculations with just PLC programmer know-how, without being specialists in the more powerful VBA language. This language is now a Movicon™ 11 tradition, adopted and in-use since earlier versions. In addition, Movicon™ 11 has its own and real IEC1131 SoftLogic, described further ahead.

Synapsis Language.

Movicon™ 11 has developed a whole new way of programming using Synapsis language. Based on the integrated VBA engine, the synapsis language permits you to create logic block graphics linked together using "Connectors". A vast library of Synapsis Logic Blocks is ready for use in the Template symbol library where you can also create and add your own. This innovation replaces the conventional function blocks, giving you the chance to use other graphical and more meaningful symbols (ie. Motors, valves and other symbology-like) instead.

OPEN UP NEW HORIZONS

Openness is the
Movicon™11 philosophy:
entirely XML-based
technology
is where it's at.



The design politics of Progea has always been influenced by the maximum openness concept. Today the courageous decision to make Movicon™ project structures go XML technology based has paid off, consenting maximum exposure to openness never experienced before, with immediate use and purposely aimed to give unsurpassed advantages to all users. The XML metalanguage is structured text defined by the W3C consortium international standard. All the Movicon™ 11 projects, resources and objects are simple XML files, therefore accessible by any other Editor. A project option to encrypt files at an instance, at anytime, is user prerogative, and sustains the old "binary file ownership". Disposing projects in XML surpasses the "importation-exportation" concept, permitting access to text structures of any project item or object, whether from Movicon™ 11 or any other external Editor. This opens the way through stumbling blocks to new "autoprogramming" concepts, where the user can go as far as predisposing macro and script that, based on related regulations, provide way to create and generate parts of projects or even the whole project itself. Movicon™ is fully equipped with "Wizards" to generate project structures automatically using VBA code.

The XML technology innovation goes one step beyond and extends the concepts of openness to freedom of choice in historical data formats, where you can now choose the one which best suits you if the default one doesn't (Ms SQL Server), such as Oracle or MySQL. Openness means freedom, being completely able to do what you like, free to reuse third party objects and components, such as ActiveX, OCX or external DLL, with "Safe Mode", or make your RealTime database transparent to external relational DB tables with a oneclick automatic connection.



**BUILT-IN
SOFTLOGIC IEC
61131-3 NO
OTHER PC-BASED
SOLUTION WILL
LET YOU BE SO
INDEPENDENT.**

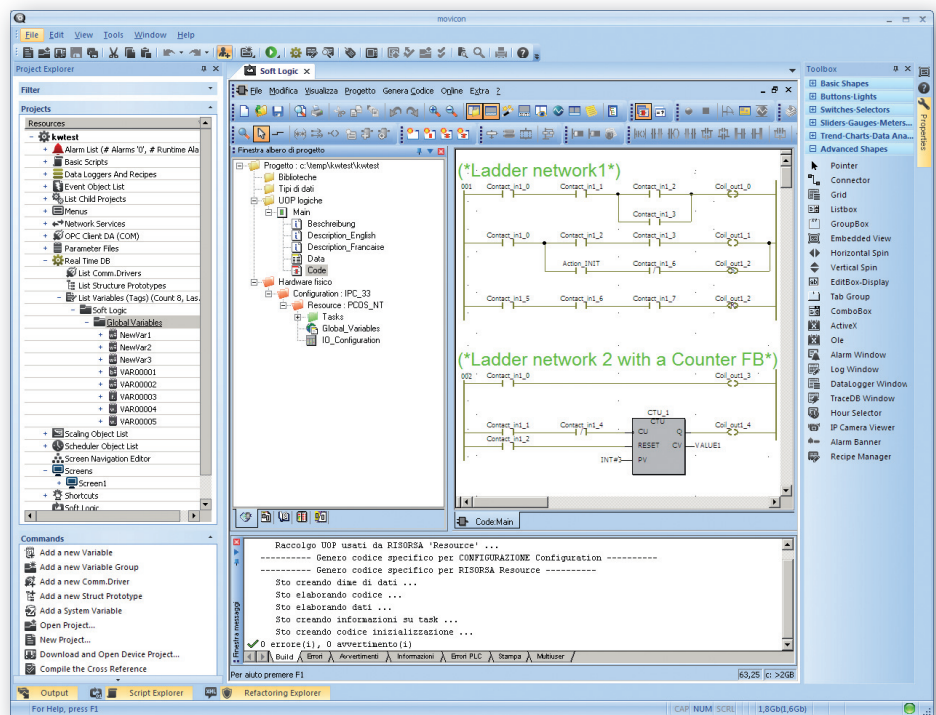
Logicon



PLC+HMI ROLLED INTO ONE UNIQUE PLATFORM.

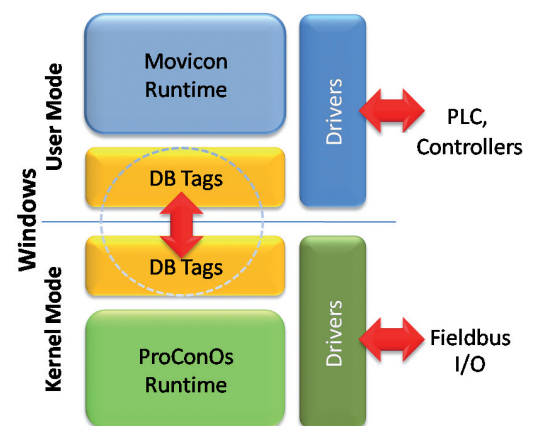
Reap the benefits that visualization and control integration has to offer.

Movicon™ 11 has become even more complete than ever to satisfy the most demanding requirements of any modern business enterprise operating in the world of industrial and civil automation. The dream to integrate every design engineer need in a one-only platform has finally come true and today is a reality achieved with Movicon™ 11. You only need to use just the one product to create both PLC and Scada/HMI projects. Integrating Movicon™ 11 in your enterprise will save you considerable time by sharing tags and integrated management in the one same workspace. One unique software system providing a vast range of PLC+HMI integrated solutions for Windows™ Vista/XP or Windows™ CE indifferently.



Logicon is Progea's proposal in the field of SoftLogic, and is the result of close collaboration with the German KW-Software. Progea has chosen a market leader company for integrating its SoftPLC product in Movicon™ 11, with already thoroughly tested solutions with partners Phoenix Contact. This joint venture has enabled Movicon™ 11 to integrate the powerful MultiProg© programming environment, PLC program editor which supports all the five IEC 61131-3 standard languages. Programming is now possible in FBD, IL, Ladder, ST and SFC languages indifferently, with the option of mixed-programming. By integrating the two programming environments and automatic tag synchronization, PC-based automation project creating has become much easier, safer and complete. SoftLogic projects can take full advantage of the benefits Movicon™ 11 has to offer, such as importing existing PLC databases (ie. Simatic S7, Rockwell, etc) or items from any OPC Server, and dispose Tag lists automatically to the two Scada and SofLogic environments. The two integrated systems are shared and connected automatically to the SoftPLC

ProConOs runtime for direct, efficient and communication performances. The SoftPLC runtime, available both for Windows™ Vista/XP and Windows™ CE, is executed within Windows™ "realtime kernel" to guarantee realtime performances and independency from the OS. The ProConOs runtime communicates with the field I/O directly using Modbus TCP, Profibus, ProfiNet, Interbus, CanBus, DeviceNet. All the potentialities of the modern and reliable SoftLogic product have been integrated to guarantee powerful developer tool usages, such as the Cross Reference, Logic Analyzer, Debugging Step-to-Step, On-Line Modifying, Simulator, distributed project designing in net, Wizards, Documentation and Archive Storage.





**RUNTIME
FOR WINCE
OFFERS
OPEN AND
POWERFUL
HMI SOLUTIONS**

Movicon[®] CE
COMPACT SCADA/HMI FOR WINDOWS CE

MAXIMUM SCALABILITY

Movicon XML projects can be run on Win32, Win64 or WinCE indifferently.

Movicon™ CE is a runtime engine which runs the same Movicon™ 11 XML projects. Your projects can therefore be run on your HMI device, on operator terminals, PDA, Palmtop PCs, Smartphones, mobile and Wireless Systems (Pocket PC and HPC2000), autonomously and independently, without needing client stations and other applications. Your WinCE device can actually be the Server or Web Server to other client stations. Movicon™ CE, installed on your WinCE device will therefore run projects created by your Movicon™ 11 platform: one project only, the same file, run on different platforms, all made possible by the project's XML structure. This means much greater management simplicity, significant reductions in maintenance costs and maximum information transparency.

Application

With Movicon™ CE you can create compact and powerful HMI visualization systems. Movicon™ CE can be deployed in HMI system based on small and compact Touch Screens, based on Windows CE 5.0 or 6.0. For instance, Movicon™ CE is the HMI software for 320x240 color Touch Panels (1/4 of VGA) but can also be scaled in grey, up to high-grade terminals with 6", 8" 10" monitors and superior. Other typical Movicon™ CE applications have been deployed onboard mobile and wireless systems (PocketPC such like), both as supervision Client stations and 'stand alone' mobile applications. All due to Movicon™ CE, the operator terminal becomes a small Scada station, offering independency from hardware, network connectivity with superior information systems (Scada, MES managerial) enhancing potentiality onboard machines.



The advantages you get from using Movicon™ CE are:

Open to project application integration with the same software on diverse hardware terminals

The advantage you get is being able to keep the same software intact even when changing operator panels, leaving you to freely choose the hardware most suited to your needs. For instance, the same project can be run on any Touch Panel based on Windows™ CE, or on any PDA palmtop based on PocketPC: no more redoing software, much more independence, time and money saved.

Openness to product line machine information integration on an enterprise-wide scale from factory floor level right through to business management level and beyond

Having freedom in circulating information is an enormous advantage you get from using the Ethernet network and OPC technologies, where today all WinCE operator terminals come equipped with an Ethernet port, consenting more simplified LAN Business system integrations. Movicon™ CE also supports the Ms SQL CE 3.0 technology, expanding and simplifying historical data managements and integrations further.

Potentiality Enhancement

Movicon™ CE consents most of the graphics functionalities of the Movicon™ 11 Scada, with enhanced data visualization. The Movicon™ CE graphics potentiality is enormously superior to any other HMI software. Not only does it have unrivaled graphics, it allows you to go venture beyond the simple HMI: powerful Alarm Management, Historical log management with relational DB integratability in net, Trends, Data Analysis, Schedulers, IP Camera, Recipes in DB, VBA Scripts, dispatching E-mails and SMS, Web Client. Just waiting for you to use within the one powerful, simple programming environment that only Movicon™ can truly provide.

Cost Effectiveness

Movicon™ CE permits you to use just one developer environment in your company, whether it be Scada supervision on PC or/ and HMI operator terminals, enabling you to save financially in learning, training, personnel and maintenance. Its Openness also means that you save on hardware costs by choosing the devices best suited to your needs while be able to maintain just the one same software. By deploying Movicon™ CE you safeguard your investment by being able to visualize

and control your factory floor and machines using Microsoft Windows™ CE operating system, with maximum software scalability guaranteed. The all in one Movicon™ 11 development environment is all you will ever need to create projects from Windows™ Vista/XP to Windows™ CE. Movicon™ CE is the most powerful HMI platform available for Windows™ CE today, entirely capable of satisfying your every need in visualization and control in a compact environment without forgoing the potentiality of the Scada system.

XML based Projects

In terms of costs, having all you need in just one programming environment to develop your projects, means you save a great deal. And not only, the Movicon™ 11 XML structured projects allow you to run the same project file both in Windows™ Vista/XP and WinCE, without requiring compilation. Movicon™ 11 consents project uploading and downloading from and to devices, and remote debugging of projects run locally on the device.

Unmatched Graphics

The powerful Movicon™ CE graphics management allows you to create HMI projects with great visual impact never seen before within a few swift clicks using the simple-to-use built-in and ready-to-use object libraries.

IP Camera Visualization

Movicon™ 11 has a viewer object for IP camera visualization on any screen and parameterized. This object can also be used on WinCE™ panels for image distribution, and accessibility through the web.

Powerful Alarm Management

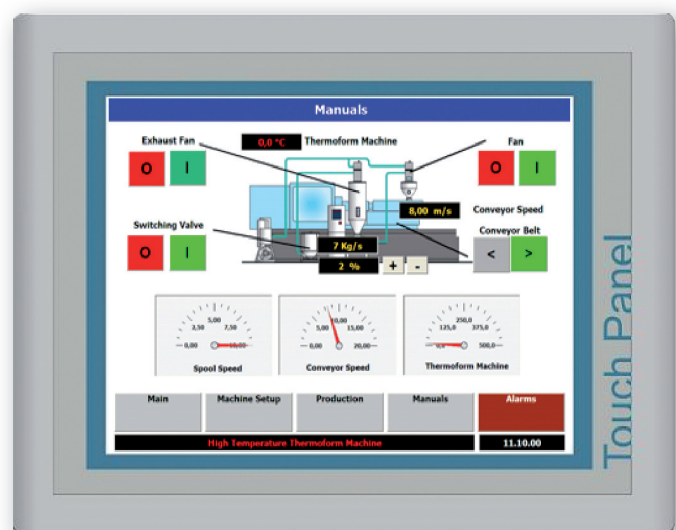
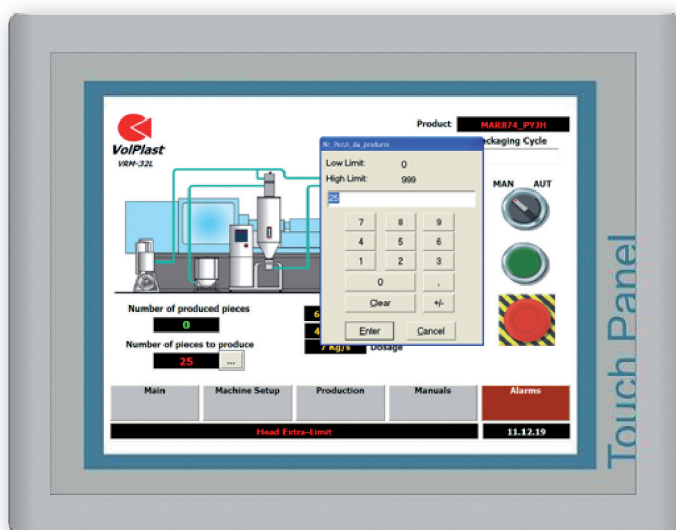
The Alarms consent to powerful solutions, with complete custom visualization and historical logging. The Movicon™ CE Alarms also support the 4 standard operating states (ON, OFF, ACK, RST) according to the ISA S-18 standard regulations, but are fully customizable in behaviour (events, colors, representations), anointed with custom help and set with conditioned events. The Historical Alarm Log recycles files, support filters and can be arranged into different sort bys. Movicon™ CE also integrates the alarm notification system with SMS and E-mail.

Multi Drivers

Movicon™ CE has numerous communication drivers for communicating with all the most popular PLCs and simultaneously. The serial and network communications support wireless connectivity (ie. Wi-Fi or Bluetooth), ideal for mobile devices. The OPC technology is supported as OPC Client.

Historicals, DataLoggers and Recipes on DB

The Movicon™ CE historicals consent to recording and storing data and recipes in text files (.dat, .xml or encrypted files) with the IMDB technology (InMemory DB), and in Relational DBs (MsSQL CE). When opting to use a Relational DB, Movicon™ 11 will automatically convert the Desktop project connections to ADOCE connections in the target. In this way historicals can still be recorded in the Relational DB and integrated with business information systems (ie. SQL Server). Movicon™ 11 introduces supported the new Ms SQL CE 3.0, offering many advantages in Data integration and synchronization with the Ms SQL Server 2005.





Integrated VBA and PLC Logic

Movicon™ CE offers an exclusive advantage in supporting total VBA power (Visual Basic for Application comp.) in Windows CE as well. Movicon™ is the only Scada/HMI product that can guarantee VBA code syntax storage in your WinCE device too. Forget VB Script limits and slowness. With Movicon™ CE you can keep VBA code intact, with an even greater advantage of keeping the project intact no matter what platform you use. Just as for desktop, the Movicon™ CE version also offers the option to use IL logic tasks (PLC type AWL language) and permits you to exploit the WinCE realtime features to obtain I/O control, almost like a true PLC.

Logicon IEC 1131

Movicon™ integrates softlogic IEC-61131 programming support. Edited programs are executable from the ProConOS realtime kernel. Also available for Windows CE.

Security and FDA 21 CFR Part 11

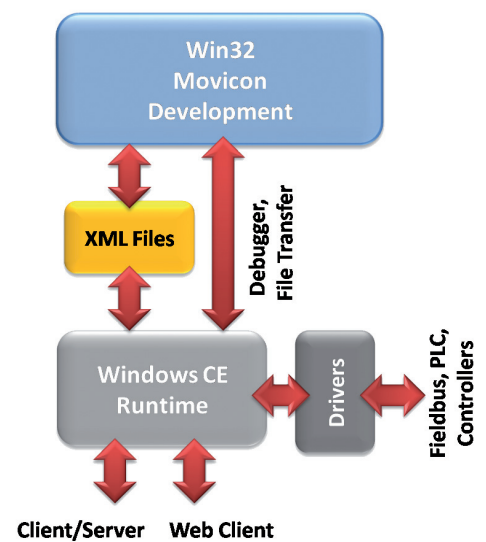
Movicon™ CE opens up a whole new security concept for HMI systems. All project functionalities are subjected to protection with 1024 levels and 16 access areas according to user authority and responsibility. Each Tag permits you to define its protection level and traceability. All functions for user sharing with the Windows™ server domain can be managed in automatic. PC access can be totally protected with the already implemented and ready-to-comply 21CFR Part 11 regulations, allowing you to create projects conforming to the FDA 21CFR Part 11 normative with Windows CE as well.

Remote Control and Teleservices

Movicon™ CE guarantees remote accessing by modem, whether for accessing remote operator terminals or consenting the user to remote access device connected PLCs in transparent mode, to obtain complete maintainability at a distance. The project upload and download functions can also be managed by remote control.

Integrated Web Client

Movicon™ CE supports the Web Client functionality for consenting access to device through the web using normal browsers, exploiting the Web Services technology. The Web client technology also provides access from remote PC stations, terminals and Javaphone mobiles.





**INFORMATION
ACCESSIBILITY
ANYWHERE
THROUGHOUT
THE WEB**

**Movicon[®]
WEB CLIENT**



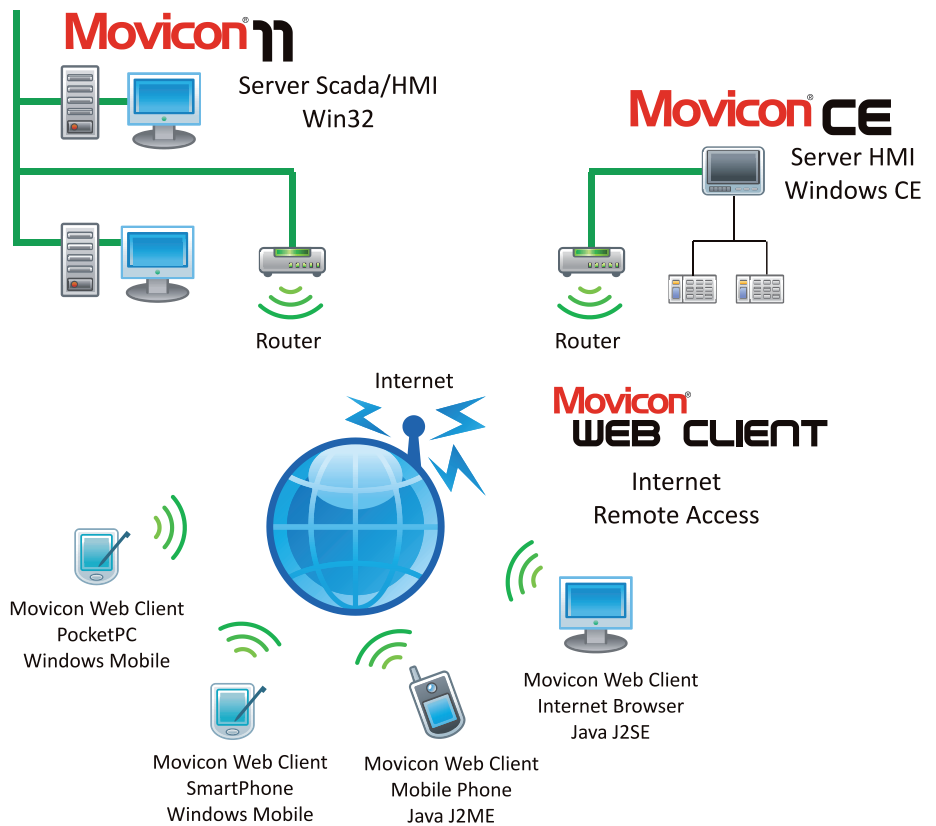
WEB-BASED ARCHITECTURE

Each Movicon™ project, run on Win64, Win32 or WinCE, is equipped with a powerful Web Client solution.

Being able to get realtime factory information no matter where and when is a strategical must-have that any serious manufacturing company is well aware of. This is why Progea has especially designed Movicon™ Web Client, the innovative software solution based on the most modern Thin Client Java technologies for sharing real-time data across internet or intranet network architectures. Thanks to the Movicon™ 11 and Movicon™ Web Client technologies you can visualize and control any Movicon™ HMI or Scada supervision station using a simple browser on the client, saving you major costs in management, maintenance and ownership licensing, while increasing your company productivity at the same time.

Truly Web-based Architecture.

Movicon™ Web Client uses the Thin Client model, thanks to which the whole application can reside and be processed on the server. By centralizing information, system management and maintenance will become simpler and low-costing. The Client displays graphics processed on the server through any Internet browser, by interacting and adapting the graphics to local resolution requirements. The Client is updated on event, upon each change only. The most advanced technologies (Java, XML, Web Services) and exception technology guarantee performances with truly innovative architecture.



Thin Client Model Innovation.

Movicon™ Web Client exploits the java technology and Web Service communication for visualizing and controlling your automated plant from any client station in local or geographic network. The Web Client solution designed by Progea does not need extra installation or configuration on the server side. Multiuserness, bidirectionality and security are all guaranteed at the same time without requiring complicated configuring. The Movicon™ Web client technology exploits the Windows™ Web Server (IIS) for default, connecting your entire plant through the web with just a few clicks. Furthermore, the Movicon™ Web Client access, consenting simple HMI stations to become Web Servers. Movicon™ Web Client is very thin (about 300 Kb) and can be run in any browser with any operating system, thanks to the java multiplatform support. By exploiting HTML pages created automatically by Movicon™, the Web Client permits visualization and control of the production process from any part of the world, using communication concepts based on TCP-IP, and optimized for public

networks with low frequency band widths, with option to encrypt, rendering your application well and truly "web enabled". The innovative advantages of Movicon™ Web Client permit you to monitor and optimize production processes at a low cost. Whatever you manufacture, you can visualize and control automation systems or machines and beat ownership license, development and system maintenance costs. Data is centralized in distributed architectures only where needed: on the Server. Clients display and interact with the Movicon™ project to which they are connected, without needing to pay any additional license and development costs, thus simplifying maintenance. Modifications executed on the Server will immediately be updated to all Clients.

Multi-platforms.

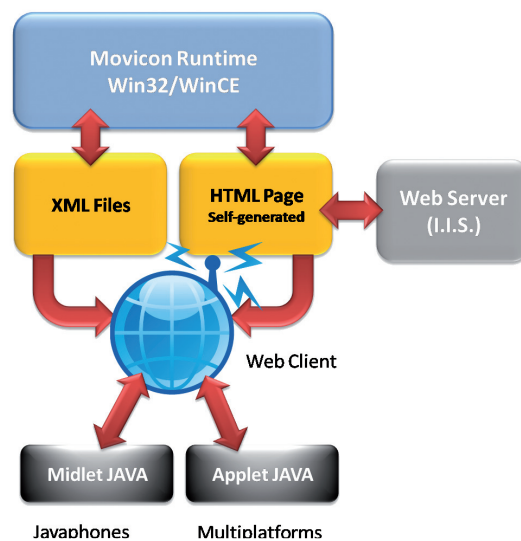
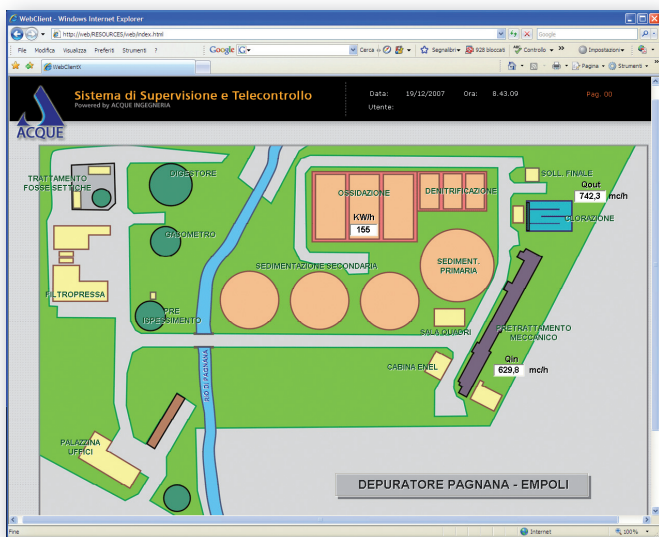
Movicon™ Web Client is based on the Java (J2SE e J2ME) technology. Thanks to this characteristic, Movicon™ Web Client can be run in any browser and in any operating system that supports the JVM (Java Virtual Machine). This gives you the great advantage of having the Java 'multi-platform' technology on the client side. Accessing factory data through the web can be done with the Microsoft platforms, Linux, Mac, Palm client stations or any other 'Java-Enabled' platform. Applications are always run by Movicon runtime on Microsoft Windows platforms on the Server side. The great advantage is that your project can also be accessed with Win64 or Win32 systems and Windows CE systems. HMI stations based on Windows CE with the Movicon™ CE runtime engine also offer Web Client technology.

Secure Architecture.

Being aided with the SOAP and Web Services, means that you don't have to modify or open firewalls when clients access your factory floor system to guarantee total security. Data between Server and Web Clients is encrypted when transmitted to guarantee public network security. As for command access security, the Web client stations allow commands, predefined on the Server, to be activated with the same security procedures. For instance, if a command requires password authentication on the server, it will also require the same authentication (Log On) in order to be activated through the web. All accesses and commands are traced and recorded on the Server Log. Furthermore, Web Client station Log-On is totally independent from the other stations where other users can log on with different user level privileges (Multi-user). The Server system can also be configured to display data only, disabling any possibility for Clients to activate commands. In addition, you can configure the graphical project objects to be made visible or invisible on the Web Client side.

Unrivaled Potentiality over the Web.

Client users are fully aided with the potentiality that only the Movicon™ Web Client is capable of offering without needing to install and process a thing on Client stations. The graphical screen representations are shown in their 'true colors' and graphics are automatically adapted to the client's graphic resolutions or to the size of the browser window. On the Client side, you can interact and activate commands and manage VBA code events inserted in symbols. All information from Historical Logs and Trends can be obtained in data tables displayed with filter and sort by support. In addition, the Scheduler and IP Camera viewer objects are supported along with their interactivities. The Movicon™ Web Client potentialities are incredibly outstanding, powerful, extremely simple and automatic, truly making the automation-over-the web concept a real 'live wire'.



Web Client features.

Movicon™ Web Client offers the possibility to access factory data using Internet/Intranet architectures. The advantages you get from using the Movicon™ Web Client are:

- **Accessing and displaying projects over the web** using any browser with any operating system, made possible with supporting the Java technology in J2ME version as well for JavaPhones technology.
- **Creating Web pages on the server** is completely automatic with just a click.
- **Project screen navigation** as provided on server, with possible restrictions due to navigating regulations on Web side.
- **No need to install or configure extra** on Client or Server.
- **Enhanced performances**, transparent support to the project functionalities and commands using a normal browser.
- **Secure data management.**
- **Notification** on exception only.
- **Communications based on Web Services.**
- **Entirely Java-based technology.**
- **Support to Applet J2SE and Midlet J2ME.**
- **Multiplatform support** on Client side (Linux, Windows™, Palm, Symbian, JavaPhones).
- **Support to Windows Vista/XP or Windows CE** on Server side.
- **Access to Server** by mobile phone acting as plant system client.
- **Complete access from Web side** to historicals recorded on Server.
- **Support to powerful functions** such as schedulers and IP camera viewers.



Web Client becomes mobile!

Movicon™ Web Client is the only Scada/HMI in the world that allows Web Clients to log on with mobile phone devices, all made possible with the Web client Midlet, consenting supervisor access using normal mobile phones with Java J2ME

2.0 support. Users can now receive event notifications over the phone, connect immediately to the plant system (GPRS/UMTS) to get information on tags, alarms, historicals and even display and interact with screens wherever they happen to be.



RELIABLE STRICT QUALITY STANDARD SOLUTIONS

Progea's technological solutions are based on long vast experience in this field with constant research for perfection. Years of constant innovation has resulted in reliable and highly developed software technology. Up to date, 40,000 Movicon™ Scada/HMI platforms have been installed worldwide. The increasing number of licenses sold year after year proves how popular Movicon is becoming globally. Technology constantly updated with innovation, rigorously lab-tested quality in Progea, officially released only after strict validation procedures have been fully completed successfully accompanied by top notch technical services guarantee users worldwide success with their applications transforming into satisfaction of use and productivity increase. This is Progea, this is the philosophy of a strongly innovation-oriented company towards quality, reliability and availability on a long term basis.

Try us out! Quickly discover why software technology and its attached services are not all parallel. Nothing can compare to Movicon, the best Scada/HMI technology for being open, modular, scalable and easy to use. Without a doubt an important commodity for improving company assets and stimulating engineer enthusiasm to be more effective and productive. A reality now experienced by all major companies worldwide operating in the many diverse automation sectors: machine builders, packaging or assembling plants, Power station sectors, food and beverage, pharmaceutical, car industry and elsewhere needing automation process visualization and control.



State-of-the-art technology.

Movicon™ is often used as a reference for its technological characteristics that not only satisfy current demands but foreseeing those oncoming and unexpected.

Quality.

The research and development procedures, severe and thorough lab test runs, release policies, product documentation, user needs analysis, united with top notch services and system traceability, make the quality of Movicon™ superior to any other product of its kind currently available on the market.

Deployment flexibility.

Movicon™ can guarantee maximum deployment scalability and flexibility, ensuring user independence from platform size and type in use and hardware. The exclusive use of standard and open technology forms the basis of safeguarding investments.

Reliability.

Reliability is a company and product trait built on 20 years operating in the international market. Constant growth and development run deep into a long term partnership with our clients. For years numerous major multinational companies have placed their trust in our technology. Our sufficiently big company guarantees long term business relationships and assistance all over the world and is always flexible to offer the right solutions for every need.

VALUE ADDED SERVICES

The Total Cost of Ownership (TCO) of a software platform is also strongly influenced by the quality of the services provided with it. Every user company is well aware that even the best product may incur indirect costs and serious damages if not correctly supported with the right services. Important factors, such as Learning Time, Feedback, Service Quality, even if not strictly linked to the product (customer support), are usually regarded as the real added Value to any software product. The relationship between Manufacturer and Consumer, in terms of software, is a "Partnership" affair. Movicon™ 11 has been designed primarily for simplicity-of-use, completely aided with a website dedicated to providing top quality support services. These services are tailored with rich, vital and useful information and examples especially for the developer community leaving little need to contact Technical Support. Progea gives the best support services that only a producer company can guarantee. Training, Assistance and Advice are the user's guarantee in confronting any planned or unplanned application, contributing to keeping implementation and internal development costs low. The Movicon trademark's international presence is guaranteed by over 30 Movicon™ distributors and vendors with the mission to sustain the product name's prestige and top quality services worldwide.



OEM PARTNERS

Movicon™ is a very well-known and widely used product in the automation world by major companies from every industrial sector, with over 40,000 licenses installed worldwide. Progea is proud to be one of the selected leading protagonists in the industrial automation

sector affirming the quality and reliability of the Movicon™ product. The Progea technology is used and distributed under different trademarks by international companies which include Phoenix Contact, Panasonic, ASEM, VIPA, Suetron, just to mention a few.



THE MAIN FEATURES



- **Tags Database open and performing**, complete data traceability and accuracy. Value Scaling and event management integrated in Tags, Traceability, Access Levels, native Tag sharing in real-time with relational DB using ODBC, shared memory and XML-link. Structure Variables. Direct importing from PLC database. Automatic and integrated management of remote connections using modems (RAS and TAPI).
- **Graphics Library** with completely custom captivating look and behaviour. Command functions with simple and powerful graphical animations. Objects come with 16 animation properties; composed movements in editable trajectory, transparency functions in addition to colorings, fillings, and more.
- **Screens based on SVG (Scalable Vector Graphics)** with powerful graphical functionality. Multi-monitor Support and parameterizable screens. Support to WMF, EMF, BMP, GIF, TIF, JPG and PNG graphics. Graphics auto-resized to screen with effective rendering for bitmap images.
- **Symbols with Power Template technology.** Symbol graphics completely customizable using VBA scripts as well.
- **New classes of analog visual display objects** based on .Net technology (WinXP/ Vista only) with unrivaled graphics.
- **Vector graphics edit functions**, with powerful design and layout tools. Objects support heredity concept effectively.
- **New Refactoring tools**, capable of automatically eliminating main programming errors (control and restore incorrect or non-existent names of Tags, links to screens, missing strings, and more).
- **Native and built-in support** to Microsoft Visual Source Safe, ensuring maximum distribution and multi-planning efficiency, managing modifications and traceability.
- **Menu Editors and shortcut keys.** Completely built-in simplified touch screen management functions.
- **Complete ISA ready Alarm Management.** Alarms completely customizable with millisecond precision. Onset time-stamps, thresholds in variables, Alarm Power Template management. External Help in HTML as well.
- **Integrated Event and Alarm notification** management. Supports SMS, Email, Speeching and Fax. Phone calls managed with complete on-call duty staff configurability.
- **Speech Recognition** for supporting vocal command activation and acknowledgement.
- **Event Historical Log Management** with open files based on relational databases (ODBC). Statistical Analysis on Alarms, filter and SQL queries. Print Management.
- **MultiLanguage management** with on-line language change. String management with dynamic text change both in programming and runtime mode. Support to Unicode for Asiatic languages.
- **Powerful Tracing and Audit Trail management** for recording every process data variation, millisecond precision value monitoring, complete range of information relating to user names, electronic signatures, previous values, motive, and more.
- **Process Data Recording with object oriented Data Loggers.** Powerful and secure automatic ODBC connection management for archives based on relational DBs. Support to IMDB as an alternative for recording in text and XML files with option to encrypt.
- **Statistical information management** can be activated in any process tag. Each tag consents real and statistical values (ie. For analysing or programmed maintenance).
- **Dynamic Vectorial Trends and historicals** with powerful sampling functions, visualization and analysis. Historical Logs based on Data Loggers with periodical analysis, zoom, averages, logarithmic scales and open to any kind of custom. Sampling with output on CSV (ie. Excel) files as well.
- **Data Analysis tool** for visualizing curves graphically with extended Trend like functions. Analysis with automatic preset time ranges, comparison curve tool, automatic measures between different points, and more.
- **Automatic Recipe Management** based on relational DB or text files. Recipes are auto-configurable with one click automatic DB file and interface management (customizable).
- **New built-in Report Generator.** Powerful and flexible Report Management thanks to the built-in Report Generator based on .Net, with powerful calculation, analysis and graphic display functions. Plus Crystal Report engine v.10 integrated. Front end report generating with custom printing formats. Support to complex formula and graphics in Reports.
- **Integrated object oriented Event Schedulers.** New schedulers consent sophisticated setting functions both in development and runtime mode, with execution time range, holiday and command activation selections. All supported on WinCE runtime and Web Client.
- **Unrivaled Security management.** Users and passwords with access to commands at 1024 levels and/or 16 areas. Automatic Operating System Access Control functions. Passwords settable at Tag level as well. User Passwords sharable with operating system domains.
- **Platform is FDA 21CFR Part 11 ready.** Audit Trail management. FDA compliant applications very simple to create.



Integration with Ms. Visual Source Safe for distributed planning in topmost security with project modification traceability.

- ➔ **Complete and powerful Redundancy management** ((Hot Backup). Files are always synchronized and managed safely with reliability in all situations with complete and transparent availability. Secondary Server automatically takes over instantly upon communication failure.
- ➔ **Powerful Networking management.** Support to TCP-IP, UDP and HTTP protocols. Event driven notifications and optimized network management. Completely distributable. Multi-server architecture with security settable directly in project properties.
- ➔ **Extremely efficient connectivity**, through included I/O drivers. Built-in OPC DA and OPC XML DA technology both as Client and Server. Real-Time Data also sharable in shared DB tables or Shared Memory using an appropriate I/O driver.
- ➔ **Built-in VBA language complete with multithreading.** Extreme openness to customizing. The Movicon™ VBA engine is also supported in WinCE runtime. Support to .Net technology (VB.Net syntax for Win32).
- ➔ **PLC type language in Instruction List (AWL)** supported. This language permits users to create simple logic with a PLC approach within the Scada/HMI, without needing expert VBA language know-how.
- ➔ **Built-in SoftLogic environment** with support to the 5 IEC-61131 languages. Tag Database sharing, synchronization for both Scada/HMI and SoftPLC programs. SoftPLC program runtime activated in Windows™ Real-Time Kernel (Vista/XP or CE).
- ➔ **Visual "Synopsis" Language** in Function Block style with graphic objects using graphical designing techniques. Each graphical symbol can become a Synopsis logic block.

- ➔ **Powerful on-line Debugger** for all Movicon™ functions. Analysis, tag forcing, project statistics, break-points and step-to-step logic execution and other powerful functionalities for project testing and documenting. Project debugging and downloading for remote systems in TCP-IP (both for WinCE and WinXP/Vista) as well.
- ➔ **Built-in Web Client technology innovation.** The Web Client, based on Java technology, is truly web enabled to guarantee openness and multiplatformness while maintaining performances, security from client stations also based on Javaphone cel phones (J2ME). No additional installation needed on Client or Server.
- ➔ **Native support to IP camera.** Images can be displayed on WinCE and Web Client.
- ➔ **Support to the XML, ActiveX, ODBC, OPC, VBA, SQL, ADO, SOAP and Web Services standard technologies.**
- ➔ **Great freedom to third party application** integration no matter whether .EXE or .DLL. Free Drivers provided for I/O sharing in shared memory. Option to use SDK for creating custom drivers.



To get a free CD Rom Demo
or further information,
please contact the Progea Offices.
On-site demonstrations
arranged by appointment.



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