





The open and flexible Movicon™ 11 architecture is the Scada/HMI solution with applicability in all automation sectors

Guaranteeing constant production process information flow in real-time from field sensors to monitoring, control and analysis systems is imperative to every company who want to manage modern production plants effectively, improve efficiency and increase business. Movicon™ 11 is the best solution available today for all companies needing to develop and maintain **supervisory control application**, user interface and data acquisition software. The exclusive "XML-Inside" technology is the revolutionary Movicon™ 11 innovation that offers an all-rolled-into-one development environment for managing HMI, Scada, Soft-Logic and statistical production data analysis applications. This will enable design engineers to reduce developing times to the minimum and provide users with powerful, open, flexible, easy to maintain solutions.

The Movicon™ 11 technology is the **excellence of Scada/HMI platforms**, with unrivalled openness, **simplicity and performances**. The only one of its kind completely based on XML standards and emergent technologies such as the Web Services, SVG graphics, OPC, SQL, ODBC, .Net and the Java technology used for Web Client solutions. Movicon™ 11 is a standard software for all those operating in the **industrial automation**, remote control, utilities 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 HMI operator panels and/or mobile devices based on WinCE, or Personal Computers in big industrial plant systems with client/server redundancy architecture and with connectivity to any PLC, network and industrial or civil fieldbus. **Your company's success depends on how open and independent your applications are and the time and resources spent in developing them.**

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





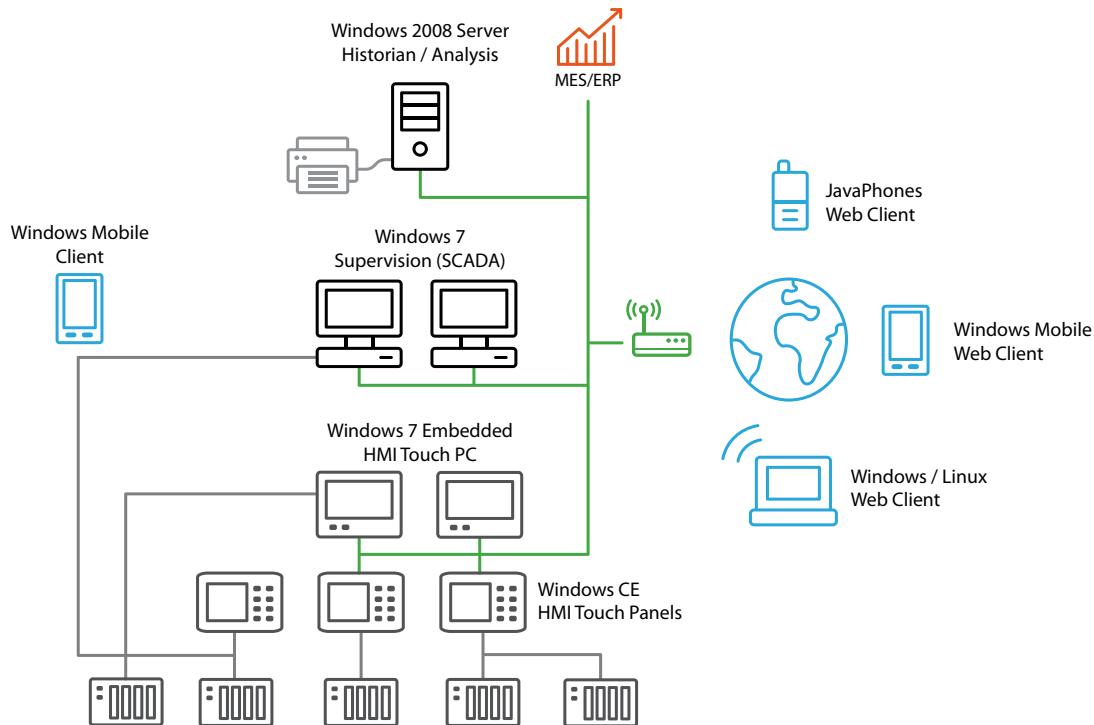
Flexible supervision

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

Being flexible is a major requirement in modern automation. Flexible means adapting quickly to client demands without sacrificing work and know-how accomplished. This is where **MoviconTM 11** can **highly guarantee** protection of your investments simply because this all-rolled-into-one software deployed in your company will satisfy all your automation application needs. This means from Control level (PLC, HMI) right through to Scada/MES Enterprise levels. **MoviconTM 11** is a real flexible platform, capable of **adapting** to all modern automation application typologies. This characteristic is very important because by having just the one visualization and control software in your company to fulfill every need will enable you to **reduce costs and time** in terms of learning, upgrading and personnel training.

The revolutionary **MoviconTM 11** gives another meaning to industrial supervision concepts.

Not only does **MoviconTM 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 enable easy application 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 using the true “**Web-enabled**” architecture that exploits the Java multi-platform and **security** technology. Deploying **MoviconTM 11** will enable you to realize any type of **supervision** application, be it simple or complex, without compromising a thing. 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 the one information flow with open and secure multi-system connectivity created with just the **one development platform**. System integration is finally a reality that can now be achieved with **MoviconTM 11**.



Whatever it is you need to build:

We can help you do it in less time

The software engineering costs of an automation project alone can estimate to over 80% of the total expenditure for an average construction job. This is reason enough to use planning tools capable of **reducing development times correlated with expert support and technical help services** to protect your investment. Based on the modern concepts of innovation, **Movicon™ 11** is purposely designed to provide all this. The extensive Research and Development of **Progea** combined with vast experience in supervision software, has enabled them to achieve the most **cutting-edge quality and technology** available in today's world of

software for industrial automation. Progea's mission to provide an all-in-one platform is now a company standard realized in **Movicon™ 11**, where ideas and innovations merge together to become a concrete technological baseline. These technological innovations will enable you to **reduce your software ownership costs** (training, support and maintenance). The **Movicon™ 11** especially designed and intuitive tools will drastically reduce development and application debug times. These are essential to any company who use **Scada/HMI** systems and who also need to keep work safe and protected.





Integrated solutions for your every need

Scalability

MoviconTM 11 is an all-in-one software platform from WindowsTM 8 (Win32/64) to WindowsTM CE. Only one platform is all you'll ever need in your company whether it be for micro applications in HMI terminals or /and medium-large 'enterprise' supervision applications for process and manufacturing plants.

Openness

MoviconTM 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 WindowsTM applications. Projects can be grouped in hierarchical structures, distributed and shared.

Security

MoviconTM 11 guarantees maximum data security. Even though based on XML, the projects can still be encrypted with 128 bit coding algorithms. The platform is FDA 21 CFR Part 11 compliant for creating FDA ready applications with great ease. The User and Password manager guarantees safe access by providing 1024 levels and/or 16 areas. The built-in Redundancy feature also makes MoviconTM 11 ideal for 'mission critical' applications.

Standards

MoviconTM 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.

Excellent Graphics with Multitouch

MoviconTM 11 offers a vectorial Graphics engine based on SVG (Scalable Vectorial Graphics), with graphics that not only support multi-touch but are independent from screen resolutions as well. A great variety of libraries have been provided containing a huge range of preconfigured objects and symbols that can be customized using the Power Template technology as well.

Performances

MoviconTM 11 enhances performances by renewing its "exception-based" technology and optimized real-time data concepts. The historical logging features offer open, performing and reliable solutions.

Connectivity

MoviconTM 11 has a native library containing a complete range of communication drivers. The drivers come with all the necessary features that include an automatic Tag importer, remote connectivity via modem, multi-station concept for point-to-point protocols, bridging concept for teleservices in PLCs and instant cable testing. The drivers guarantee full configurability with

the option to customize communication on event. The SDK and "Shared Memory" driver guarantee openness for creating your own drivers autonomously. MoviconTM 11 also includes a free driver library and full connectivity via OPC either as Client or as Server.

Very Efficient Networking

MoviconTM 11 has sophisticated Networking technology that is capable of instantly connecting any HMI or Scada station with one another in the same network. Any Movicon application can be a network server for other stations, (WinCE or Win8). Client stations can be connected to within a few clicks. Efficiency and performances are guaranteed by **event-driven** technology and other emergent and multiplatform technologies such as **SOAP** (Simple Object Access Protocol) and **SOA** (Service Oriented Application). MoviconTM projects can be used as Server and Client indifferently or both simultaneously. Client projects can also be distributed and run locally on the client while residing on the main server. The MoviconTM networking is adaptable to any enterprise network integration according to network administrator requirements: TCP-IP as well as UDP and HTTP protocols are also supported. The networking feature **automatically** manages remote connections via RAS. MoviconTM 11 integrates the Web Services technology, consenting information distribution support to public networks (over the internet).

Web-enabled Architecture

MoviconTM 11 offers the best Web Client technology. Due to its innovative architecture based on JAVA and APP for iOS and Android, access to the server is instant using internet browsers on any PC platform, smartphone or Tablet (i.e. iPhone, iPad, Android, Blackberry). Multiuser, bi-directionality and security are all guaranteed to enable cost reductions and maintenance as well. The servers are scalable from WindowsTM 8 to Windows Embedded and WindowsTM CE.

SoftLogic IEC 61131-3

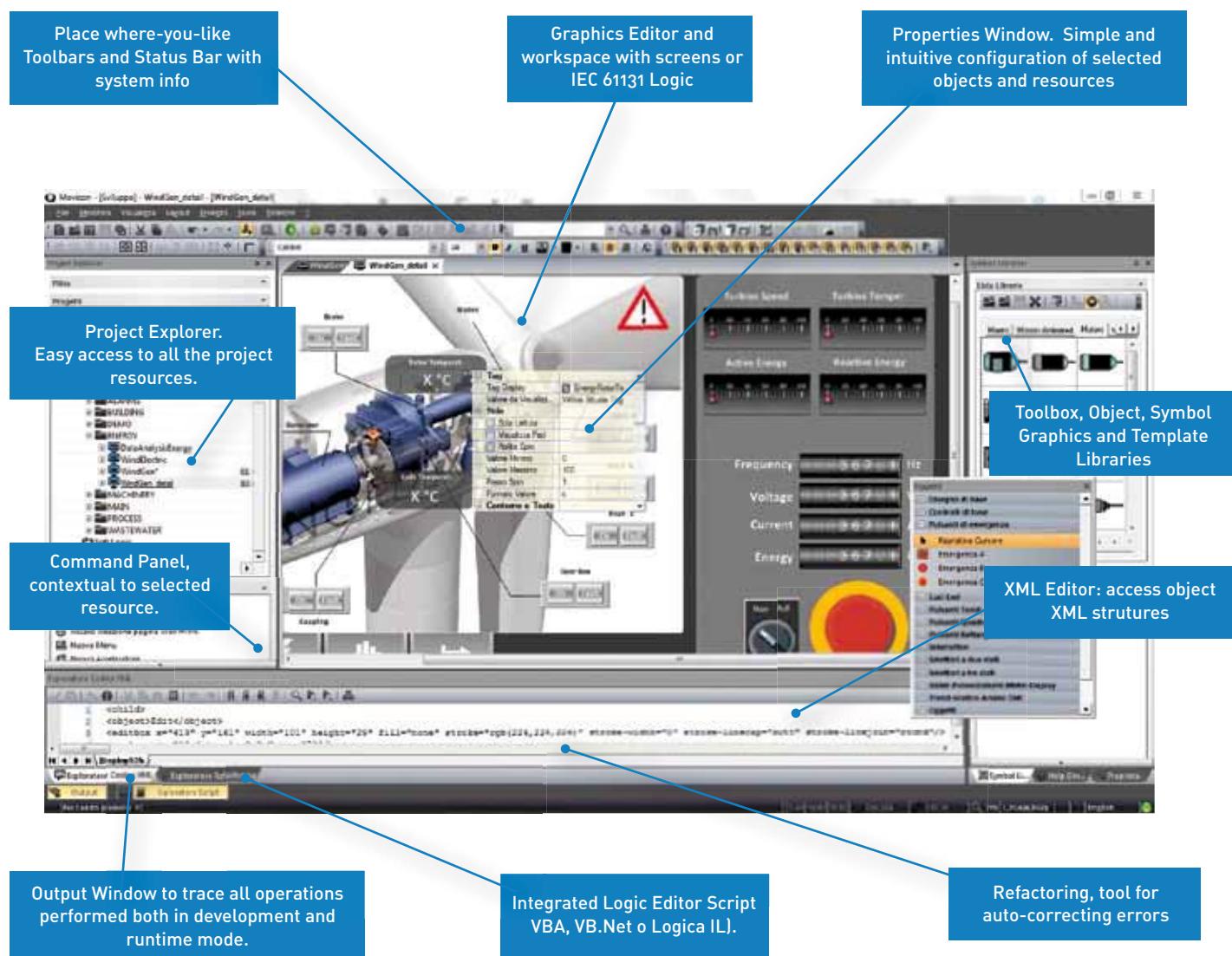
MoviconTM 11 integrates the Logicon SoftPLC to guarantee an all-rolled-into-one programming environment both on SCADA/HMI side and SoftPLC side. This means that by using just the one editor you only need to synchronize just the one Tag DB which will save you time in development while making a significant enhancement to system potentiality. The SoftLogic has a powerful programming environment consisting of 5 IEC1131 languages, powerful debug and documentation functions and deterministic and real-time runtime for both Win32 and WinCE.



Avant-garde technology for everyone

The **Movicon™ 11** workspace is the result of intense research in software ergonomics with the aim to accomplish a product that is simple and a pleasure to use. **Movicon™ 11** drastically reduces time in developing because every imaginable tool and functionality is available and ready-to-use at hands reach within the one same environment. **Movicon™ 11** outshines any other product currently available on the market for its **simplicity-of-use** and intuitivity with intelligent Editors, integrated auto-configuration tools and Tag importer tools.

Design engineering need no longer be a chore but a pleasure and immediate with **Movicon™ 11**. Get great visual impact within a few clicks and be rest assured that your investments are safeguarded.





Intelligent Editor

Simple, complete and intuitive, designed for fast project engineering

Combining power with simplicity is not an easy task. You may often find that easy-to-use software systems tend to be restricted in what they can do. On the other hand, software that claim to be powerful are often too complex to use. **Movicon™** has been able to remedy these drawbacks and override such restrictions.

It is the only **Scada/HMI** platform that has been thoroughly tested for usability and ergonomics (in collaboration with the university computer science research departments) with optimum results.

Movicon™ has been intelligently designed to suit all user demands allowing them to save time in becoming more productive by obtaining **maximum deployment flexibility** capacity without restricting **potentiality**. The **Movicon™ 11** workspace is transparent, pleasant and intuitive. All the tools are ready-to-use within easy reach. Configuring can be entirely performed by using a vast range of object libraries and resources which are all fully customizable through their properties window. The properties windows can be moved, positioned and docked as pleased and provide all the properties logically divided by group and sub-groups. By using the vast range of available configuration properties, you will no longer have to fully rely on script code. This will enable you to **save time in planning, project debugging and maintenance**. The main features of the **Movicon™ 11** 'intelligent' Editor are:

- **Extreme simplicity-of-use** in one single built-in Editor. The one same Editor can be used to create projects for Windows™ 8, Windows™ CE and Web Client. No need to install additional components for creating applications.
- **Configurable Workspace**, floating or normal windows. Shortcut commands and quick-to-configure pop-up windows.
- **Easy-mode configuring** to display only the most common properties for user discretion and to enhance simplicity of use.
- **Refactoring**, tools for automatic correction of tags assigned to objects and windows in error and retrieving missing text strings.
- **Enhanced Cross Reference**, built-in and interactive. Constant control of variables used in projects. Auto-generate projects using wizards with project templates. Users can create new wizards to reduce project developing time.
- **Projects based on XML and open**. "XML code" window for displaying and modifying objects directly in XML text. Macros can be created for auto-generating projects or parts of projects in custom mode. Projects can then be encrypted when desired.
- **Object-oriented Programming** Environment with powerful vector graphics.
- **Symbol Libraries and Templates. Power Templates®** technology for managing complex object libraries with integrated VBA code. Template management for Alarms, Data Logger, Events, Schedulers. Alias and Public Symbol management featuring heredity. Centralizable and expandable libraries.
- **Distributed project planning** made possible with the "Child Project" technology, consents to 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.
- **System explicitly designed** System explicitly designed with built-in support to FDA CFR21 Part 11 normative.
- **Free I/O Drivers included** with automatic Tag importing from PLC with direct link to device. Libraries can be added to and customized with SDK.
- **Powerful On-Line Debugger** with functions to analyse and simulate projects locally and in remote mode.
- **"On Line" project modification**. Upload/Download modifications using remote control.



“Captivating” Visualization

Powerful graphics account for better application intuitivity

Production process visualization is paramount to any supervision system. The more transparent process visualization becomes, the more efficient the factory is run. More than before users are looking to a more realistic presentation of their plant systems. Therefore graphics play a determining role in accomplishing this but can be a time consuming task when developing projects. This is one of the areas where **Movicon™ 11** demonstrates its superiority in terms of powerful graphics features and saving time:

- **Vectorial Graphics Editor** and SVG based technology (Scalable Vectorial Graphics) with Anti-Aliasing management.
- **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** for accessing all the symbol properties, variables and code.
- **Import-Export vectorial symbols** to/from the most popular Windows™ vector formats.
- **Toolbox** rich in functional graphical objects (buttons, switches, gauges, etc) pre-built with specially designed graphics.
- **Supports all bitmap graphics files** such as BMP, GIF, JPG,TIF, PNG and WMF and EMF files. Supports color transparency.
- **Analog viewer library integrated** with eye-catchy and realistic graphics.
- **Powerful animation graphics**, 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**, for creating symbols with preset functions, simple animation associations or with powerful VBA script functions integrated. The Power Template technology makes it possible to auto-configure projects simply by inserting symbols on screens.
- **Auto-resizing to screen or window** resolution for vectorial bitmap graphics (Raster). Auto-adaptation available in Web Client visualization as well.
- **Built-in support to multi-monitor systems**. Possible to define which Monitor screen is to be opened.
- **Graphical object XML structure** inspection internally and by external programs and editors. Complex objects can therefore be edited through their properties in 'text' mode to speed up Copy&Paste or 'find-replace' operations.
- **Graphics Editor for managing menus** (pop-up or bar menu) and assigning keyboard commands. Powerful drop-down Menus can be created directly and visually.
- **Support to Symbol heredity and Alias technology**. Public symbol modifications can be propagated to symbols belonging to the same category. The Alias management enables symbols to be customized (both in runtime and developmentmode) in function with their Alias tables.
- **Supports different Windows "Styles" and "Themes"** technologies. Project and screen aspects can be changed according to their pre-assinged styles.
- **Built-in native objects** for visualizing images transmitted from IP cameras and also in WinCE and WebClient.





Alarms: All under control

Monitoring, Archiving, Notifying and Analyzing: You couldn't ask for more

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 ongoing plant situations to improve 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), and Active Alarms are displayed and managed graphically in the Alarm window or as banners with various filter options (by time, area, priority, period, etc.). Includes option to link dynamic help and guidelines from external files (CHM, HTML, PDF).

The alarm intervention times can be configured by choosing an activation time from PC or using the "TimeStamp" variable value. 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 life expiry date set in the project's properties. The purpose-built **Historical Log** window automatically logs and forwards data, displayed in the preferred order format (chronological, by type, by priority order etc.). The alarms support "Template technology, which consents to parameterizing repetitive alarms, as well as providing tools and wizards for fast development and configuration.

Analysing, Filtering, Order by

The Alarm Window and the Historical Log Window are tools used for displaying active or field 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 with direct or 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 as needed. Active Alarms can be selected for viewing their history on occurrences and statuses **directly and immediately** in the Alarm window, a handy feature for simplifying event analysis activities for **improving productivity**. All 'order by' and 'filter' options are provided to display information in the most transparent and intuitive way possible.



Statistical Analyzer

Tools capable of statically analyzing machine downtimes during production runtimes are crucial to factory production and maintenance managers. The data analysis quickly detects any critical points within the production process to enable plant system efficiency and productivity improvements. It is difficult to improve productivity without this information. This powerful tool is used for managing events and production downtimes analytically in order 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). The reports can be displayed and printed on command or on event as desired and exported in various formats (Excel, PDF, HTML). The reports provide all detailed information in detail on each individual alarm analyzed.

Alarm Dispatcher

Unmanned or remote systems must guarantee and transmit information immediately to on-call duty staff to prevent prolonged production downtimes and delayed production deadlines. This is where the alarms play an important part and are **configurable** in all MoviconTM projects. The MoviconTM Alarm Dispatcher, notifies events, sends alarm alerts to staff using Voice technology (Text-To-Speech) telephone notifications with voice synthesis), with SMS, E-Mail (with or without attachments) or by Fax. The supported Ms

Messenger is also an essential feature 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. The Alarm Dispatcher's notification system is configurable on each event (ON, ACK, OFF and RST) as required and supports notifications in TTS SAPI 5.1, E-mail SMTP and MAPI protocols, SMS (GSM and SMPP) protocols.

Programmed Maintenance and instant guidelines

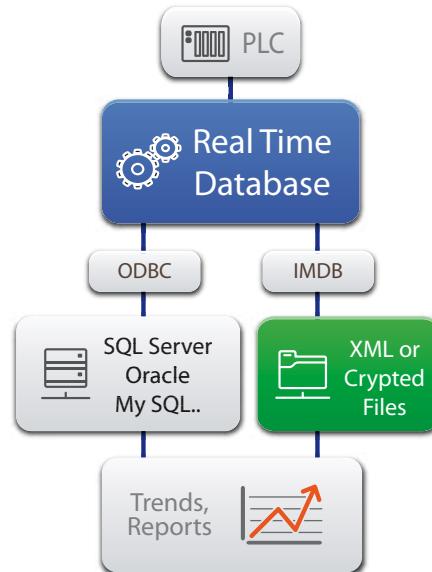
MoviconTM simplifies programmed maintenance management by allowing the user to activate alarms not only with the associated variable's real value but also with its duration 'statistics' value. This makes it **extremely simple** to set activation thresholds on set-points relating to the variable's total ON time. External files can be easily associated for activating userfriendly help files (HTML), movie files (.AVI), sound files (.WAV) or BMP files to support the system operator while they work.



Everlasting secure data recording

Process data encryption and safe storage in your preferred relational database

Supervision systems collect, record and store process data for further reference and analyzing. This data guarantees Production Managers all the information they need for analysing ways to improve, pinpoint and isolate anomalous behaviour. The Scada's job is to consent data aggregation, define and set data recording and archive management modes in the simplest way possible. Movicon™ 11 provides all the tools you will ever need to accomplish this. Built on concepts of **simplicity, reliability and openness**. Movicon™ provides 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™ supports all relational DBs by proposing an automatic selection between Ms SQL Server™, MySQL™, Oracle 10™ or MsAccess via ODBC. Movicon™ uses the Microsoft SQL Server™ for default, until specified otherwise. Each of the three engines has different tasks. One records process data using the **Data Logger resource**, another historically logs Events while the third manages the powerful and sophisticated task of tracing variables (Audit Trail). As an alternative to the ODBC recording engines, Movicon™ offers the use of an IMDB manager (In Memory DB) that enables data (Data Loggers, Events or any other data) to be recorded 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 and is particularly indicated for Embedded systems (WinCE), or those who wish to use data encryption.



Data Loggers

As the main tool, the Data Loggers permit **simple and fast** 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 purposely designed graphical objects, which includes Database table display windows, grids, Trends, Reports.

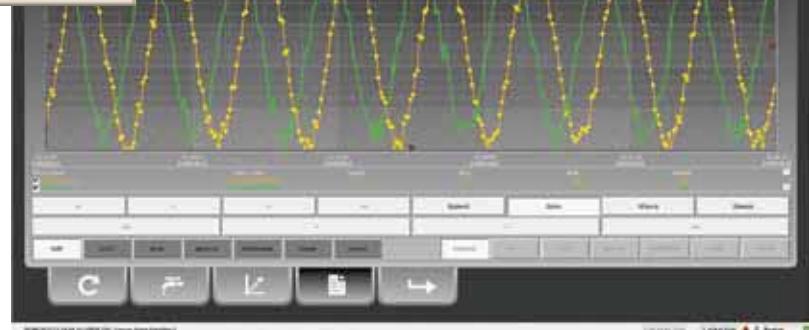
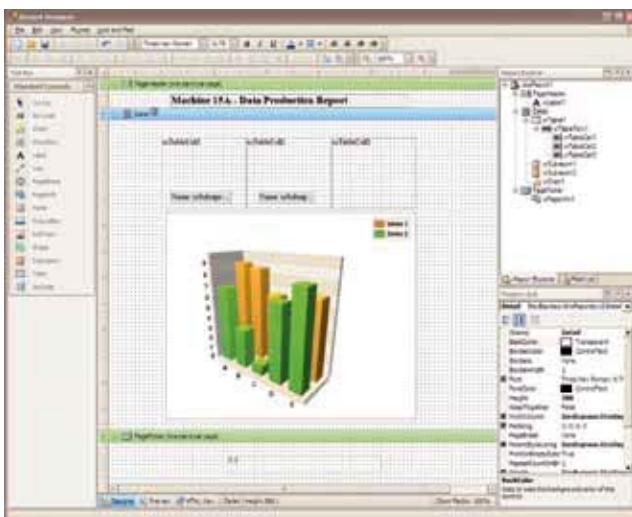
Recipes

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. When selecting the product desired, the parameter values relating to the plant's variables will activate. The recipe management is **extremely easy** to use in Movicon™ by being object-oriented aided with wizard technology: simply create a "recipe" object, assign it the necessary variables and then simply press the "wizard" command to automatically generate the recipe's display window graphics with user interface through which it is **completely customizable** as desired by setting the 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 automatically.



Report Designer

Movicon™ offers a powerful and unmatched Report management. The Crystal Report® tool used in earlier versions is still available for generating .RPT files such as system management reports, displayed and printed by Movicon™ with the built-in Crystal Report® Engine. However, Movicon™ 11 now includes an additional powerful built-in Report Designer based on the .Net technology. The Report Designer is used for generating powerful visual reports with statistical and graphical chart and graph functions to enhance the simplicity of generating reports within the same project. The Movicon™ Report Designer is one of the most powerful reporting tools to have in any Scada system. The Textual Report feature is easy to use for creating reports in RTF or HTML files for simple compact systems (such as WinCE) as well.



Trends and Data Analysis

Tightly linked to the Data Loggers the Trends are graphical objects predisposed for displaying curves relating to process data behavior. The Trends can be dynamical and historical (Run-Pause) and are ideal for displaying values graphically and offer a variety of options for customizing pens and legends. The Trends can be directly linked to Data Loggers and data can be displayed according to time range and other filter types. The Trends also come with a zooming feature, a selection of pen types and logarithm scales. They can be shrunk to fit perfectly into one screen, printed and more. They are completely configurable in runtime to become truly powerful Trend Template objects using the VBA functions. The Data Analysis feature is more sophisticated than the Trends and is used for producing graphical visualization of historical data recorded by the Data Loggers. The Data Analysis object is capable of quickly analyzing data according to predefined time periods using comparisons and overlapping curve methods. For instance, an analysis based on sample curves or analysis comparing different time ranges (ie. Confronting one year's values with the previous year's), will be measured at an instant by tracing the lines between the various points in the graph to obtain value differences.



Unlimited Connectivity

Excellent built-in I/O Drivers and Networking for high speed communications

High speed communication is paramount to any type of automation system. Supervision systems are meeting points for all process data. The crossroads of non-stop production information flow of enterprise-wide systems.

Communication is a strategic role deeply rooted in **Movicon™ 11** which features tools purposely designed to promote faster, smoother and more **transparent data flow** than ever before. **Movicon™ 11** also provides users with a rich library of native inbuilt I/O Drivers included free with the product. Communication with control systems (PLC, CNC, Instrumentation, Fieldbus) has never been so quick to configure and so quick to perform. Helpful Wizards aid automatic import and configure project variables directly from the PLC to save time and reduce risk of errors. The I/O Driver library supports all PLCs and systems found on the market today, and can be amplified by third parties using a SDK

OPC Technology

In addition to 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 OPC Server item Tagging. **Movicon™** is OPC Foundation certified and Progea is an active member.

Networking Supremacy

The Client/Server architecture is guaranteed with inbuilt features for dynamic information and project distribution 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™** workstations is direct and instant with a double-click on Client station. The Server stations can be based in Windows™ 8 or Windows™ CE Windows indifferently. Communication in net uses TCP-IP transport for default and can be completely **customizable** to suit every need by network administrator users by modifying the project's Network Server properties as required.



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 and SDK Openness

Movicon™ 11 provides maximum openness to custom communication systems. A 'neutral' driver permits access to realtime variables using the **shared memory**. **Movicon™ 11** 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 toolkit** allows you to **autonomously** create new **Movicon** drivers. **Movicon™** also supports the OLE technology through registering application in the Windows™ ROT so that other applications can manipulate projects in runtime.



Top level Protection

System access with maximum security and FDA compliance

The Movicon™ 11 applications guarantee **maximum security and reliability**. The User and Password management, complete and robust, has been explicitly designed to ensure that projects are created with simplicity and integrated FDA 21CFR part 11 compliance (the United States Food and Drug Administration). Movicon™ 11 ensures **maximum data and system access protection** with **1024 User levels and 16 access levels**. Project users can be shared with the Windows™ Domain with option to integrate and centralize user data profiles. Security criteria is complete, 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 Audit Trail management. Movicon™ allows you to define different protection levels and traceability directly within each single Tag, independently from their associated commands. Furthermore, Movicon™ 11 supports Windows™ 8 Services and consents total or partial blocked access to Windows™ desktop. Data is recorded on safe relational databases (SQL Server or Oracle) and in property 128 bit encryption format.



User Management

Movicon™ 11 provides options to have **mixed project user affiliations**, runtime administrator user, Windows™ domain user and linked "Child" project user configurations in user data profile definitions. User access privileges can be associated not only to all actions and command functions but to each single project Tag as well.

FDA CFR21 Part11 & GAMP5

Movicon™ 11 has complete 21CFR Part 11 compliance, ready to use for creating FDA or GAMP valid projects with great ease for sophisticated Scada systems based on Windows Servers or simple HMI based on Windows™ CE.

Redundancy (Hot Backup)

Powerful Redundancy management for Mission Critical applications. Movicon™ 11 guarantees reliability deriving from more than 20 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 situations.

The Movicon™ redundancy is completely automatic and transparent. Data synchronization is managed for both historical and dynamic data, guaranteeing the most efficient and safe data integrity in any situation no matter how serious and is completely fail-safe.





Powerful built-in functions

An Editor rich in functionalities and objects means writing less code and less time spent in developing projects

Every developer is well aware how essential it is to have a wide range of tools left at 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 clearly 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 pre-settable time ranges. The **Movicon™** schedulers manage different calendar dates and plans, with freely configurable time formats, for any command type. Great user **freedom to establish** 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 using a wide range of predisposed functionalities and actions. Event objects are great time savers. There's 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 (i.e. Buttons, menus, etc).

Touch Screen and Multitouch



One of the key requirements for a supervisor is full support to HMI devices without keyboards (Touch Screen). All objects requiring data settings are associative to virtual system keyboards (NumPad or Alphanum Pad) or custom alternatives. All in automatic and predisposed to Touch Screen support with ease and simplicity. Furthermore, the **Movicon™** virtue keyboard graphics are totally customizable. **Movicon™ 11** introduces support to multitouch gestures, that include pinching, zooming, dragging and panning to view or change page, multi-touching or tapping several points or objects simultaneously and other touch techniques.

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 by associating 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 minimum and maximum, average, total time ON values in daily, monthly and yearly parameters.



Menu editor

Movicon™ provides the usual “Menu” resource allowing you to create menu objects and submenus structured on managing commands within the project’s user interface. Pop-up 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 in Shortcut objects to enable commands, associated to keyboard key strokes, to 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 functional in ethernet. The IP camera viewer object is located in the Movicon™ 11 toolbox and is managed in the same way as the other objects. When used on screen it shows streaming video images from the IP video camera. Images can also be transmitted via Web or shown on HMI panels based on Windows CE.

Project Upload

Movicon™ integrates project or project modification uploading services to target devices, both in local or public networks. These intelligent upload functions are also accompanied with other commands (run-stop, debug) for performing operations in remote projects.

Windows Services Support

With one simple command the Movicon™ project can be run as ‘Windows Service’. Full operating system integration is easy with the option to completely customize Desktop access management, system key usage, CTRL+ALT+CANC, and other.



Multilingual projects

The Movicon™ 11 projects are truly “international” and can contain all text strings in an **unlimited number of languages**. Projects can be localized to any language with any character type (Unicode also with UTF-16 coding for Asian and Arabic characters). The texts can be managed in a String Table within the project and directly supports copy&past from the Ms Excel™ Editor. Each language corresponds to an XML text file and can be changed and activated instantly when needed in Edit and Runtime mode. Different languages can be associated to different users to enable the system font to change automatically according to the language of the user logging on.



Integrated Languages

Powerful VBA engine, multi-threading functions and Power Templates. AWL language for the not-so-expert user

Object oriented programming may not always be capable of delivering solutions to suit the particularities of complicated demands and requirements. Even though one of the roles of a Scada platform is to reduce or avoid the use of script and code this is not always an option. Using code or script may result indispensable when performing calculations, functions or customizing the more complex functionalities, such as those used for accessing databases, managing ActiveX, OCX, or special peripherals, algorithms, calculation functions, and other. Whatever needs to be done can be done with Movicon™ 11 and the **built-in languages** to accomplish unmatched solutions to suit every need.

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, 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 as graphical objects, alarm objects, templates, data loggers and more. The Movicon™ 11 VBA language guarantees

multithreading so that a number of different VBA script can be executed at the same time to provide solutions that no other system using standard language can offer. The powerful debugger can perform step-by-step, break-points plus other operations. The new Movicon™ 11 VBA engine supports VB.Net technology, so that VB.Net syntax can now be used to manage software components based on the .Net technology. The Movicon™ 11 VBA Engine is also integrated in versions for Windows™ CE, guaranteeing maximum 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 IEC 61131 SoftLogic, described further ahead.

Synapsis Language

Movicon™ 11 has developed a whole new way of programming with the Synapsis language. By using the integrated VBA engine, the synapsis language enables you to create logic block graphics which can be linked together using "Connectors". A library containing a vast variety of ready-to-use Synapsis Logic Blocks can be found in the Template symbol library. You can also create and add your own to this library as well. By using this innovative feature you can use a variety of different symbols (i.e. Motors, valves and other symbology-like) as an alternative to using conventional function blocks.





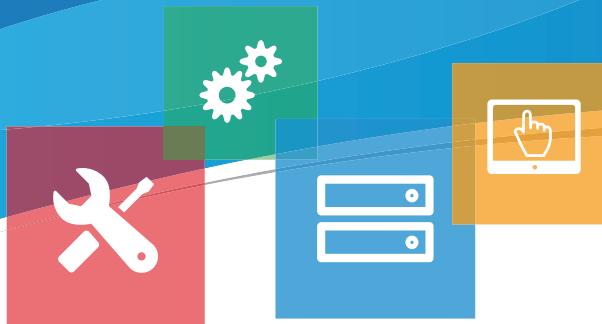
Open up new horizons

Openness is the Movicon™ 11 philosophy based on XML technology

Progea has always believed in **maximum openness**, a concept engrained throughout their software technology. The courageous decision to make **Movicon™ project structures go XML**-- based technology has today paid off, consenting maximum exposure to openness never experienced before. Immediate for use this technology is purposely aimed at benefitting users with the best advantages. 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**. An option to encrypt project files at an instant, at anytime, is user prerogative and has been fully provided sustaining the concept of "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.

A bridge over troubled water to a new "auto-programming" way of life. encouraging the user to venture in predisposing macro and script that, based on related regulations, give way to creating and generating parts of projects or the entire 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 openness concept to freedom of choice in historical data formats, where you can now choose the one most adaptable for your purposes if the one proposed by default is not (Ms SQL Server), such as Oracle or MySQL. Openness means freedom to decide which is the most appropriate for your needs, 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 one-click to connect automatically.





Movicon[®] CE

COMPACT SCADA/HMI FOR WINDOWS CE

Runtime for Windows CE and Windows Mobile offers open and powerful HMI solutions

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 HandHeld), **autonomously and independently**, with or without connecting to server or client stations or without Server Terminal. Your WinCE device can actually be the Server or Web Server to other client stations. Movicon[™] CE, installed on your WinCE device means that you can run projects created in your Movicon[™] 11 platform: one project only, the same file, run on different platforms, all made possible by the project's XML-based structure. **This means much greater management simplicity, significant reductions in maintenance costs and maximum information transparency.**

Just the one software for flexible and scalable applications

With Movicon[™] CE you can create **compact and powerful HMI visualization systems**. Movicon[™] CE can be deployed in HMI systems with small compact Touch Screens, based on Windows CE 6 or 7. 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-ranging terminals with 6", 8" 10" monitors and superior. Other typical Movicon[™] CE applications have been deployed onboard mobile and wireless systems (i.e. PocketPC), both as supervision Client stations and 'stand alone' mobile applications. By using Movicon[™] CE, the operator terminal becomes a small **Scada station**, offering hardware **independence**, network connectivity with superior information systems (Scada, MES managerial) enhancing machine potentiality.



Microsoft
Windows CE

Hardware independency

Movicon[™] CE guarantees independency, maintaining the same software even when changing HMI Touch Panel type, allowing you to choose the right hardware product that suits you best.

Machine information integration in enterprise-wide networks

Movicon[™] CE enables you to connect your HMI Touch Panel to your enterprise network to improve information flow in real-time. Movicon[™] CE also supports the Ms SQL CE 3.0 technology, expanding and simplifying historical data management and integration.

Power Enhancement

Movicon[™] CE includes most of the graphical features provided in the Movicon[™] 11 Scada remarkably enhancing data visualization. The Movicon[™] CE graphics potentiality is superior to any other HMI software. Not only does it have unrivaled graphics, it will empower you to venture beyond the simple HMI: powerful Alarm Management, Historical log management with relational DB integrable in net, Trends, Data Analysis, Schedulers, IP Camera, Recipes in DB, VBA Scripts, dispatching E-mails and SMS, Web Client, all ready-to-use within the one powerful, simple programming environment that only Movicon[™] can truly provide.

Cost Effectiveness

Deploying the all-in-one developer environment of Movicon[™] CE in your enterprise as Scada supervision on PC or/and remote HMI operator terminals, will save you costs in learning, training personnel and maintenance.

Movicon[™] CE enables you to visualize and control your machines using the Microsoft Windows[™] CE OS to guarantee maximum scalability possible to your software platform while protecting your investments. Movicon[™] CE is the most powerful HMI platform available for Windows[™]CE capable of satisfying every visualization and control need within a 'compact' environment without forfeiting the potentiality that a typical Scada provides.

Remote Control and Teleservices

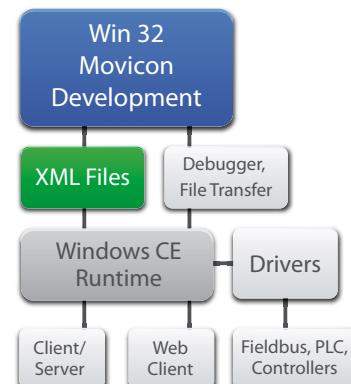
Movicon[™] CE guarantees access to remote workstation terminals and connected PLCs to device by remote control using modem in the most transparent way. This is most indispensable for attaining all round maintainability at a distance. The project upload and download functions can also be managed by remote control.

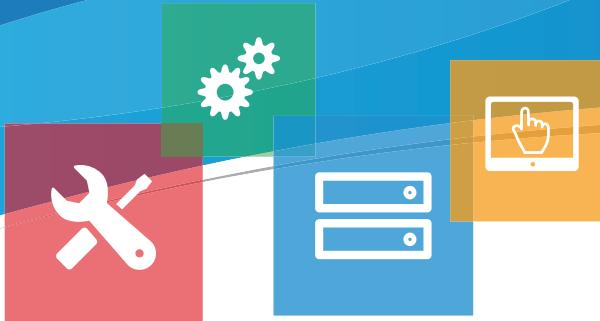
Web Client built-in

Movicon[™] CE supports the Web Client functionality for consenting access to devices 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

Movicon CE Advantages

- All-in-one development and configuration environment: Movicon XML projects can be run both on Win32/64 and WinCE
- Unmatched graphics and monitor resolution independency
- Powerful dynamic animation features
- Rich library of graphical objects and symbols
- Powerful Alarm and Message management
- Historical Event log archives, also in SQL Server DB, with order by filters
- Event notifications with SMS and E-mail
- Object-oriented Recipe management
- Historicals and Data Loggers in open archives, both in text and SQL Server DB format
- Integrated sequential IL Logic
- Basic Scripts with VBA syntax
- IEC 1131 SoftLogic (optional)
- Library containing a vast variety of native drivers with support to Multidriver connections
- Built-in Networking
- OPC Client
- User and Password management containing 1024 levels and 16 areas. Supports FDA CFR21 Part 11
- Remote control and Teleservices
- IP camera support
- Events and Schedulers
- Project Debug and Upload
- Web Client technology





Movicon® WEB CLIENT

**All Movicon™ projects are run on Win64,
Win32 and WinCE using the powerful Web
Client solutions**

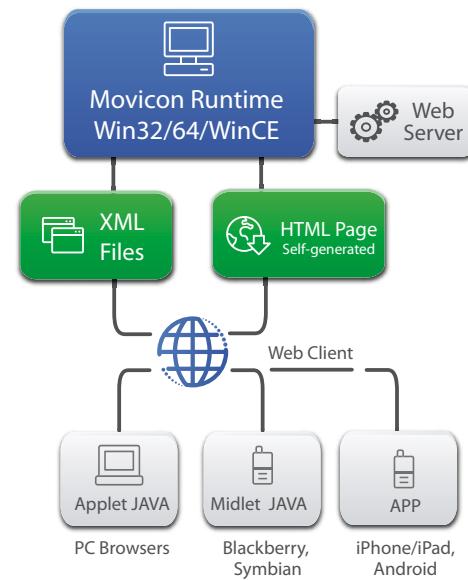
It is indispensable for any manufacturing company to have real-time factory information available at any time and place. It is not just a question of survival but of staying competitive. This factor is one of Progea's main concerns and it is one of the reasons that led them to create the Movicon™ Web Client, an innovative software solution based on the most modern Thin Client Java technologies for sharing real-time data across the Internet or Intranet network architectures. The Movicon™ 11 and Movicon™ Web Client technologies will enable you to visualize and control any Movicon™ HMI or Scada supervision station using a simple browser on the client side. This will enable you to improve productivity and stay competitive as well as save you significant costs in management, maintenance and ownership licensing.

Truly Web-based Architecture

Movicon™ Web Client uses the Thin Client model whereby the application in its entirety is able to reside and be processed on the server. Centralizing information in this way will simplify and contain costs of system management and maintenance. Graphics processed on the server side can be displayed on the client with any Internet browser by interacting and adapting the graphics to local resolution requirements. Updates are transmitted to the Client on event upon each change only. The most advanced technologies (Java, XML, Web Services) and exception technology guarantee performances with truly innovative architecture.

Unrivaled Potentiality over the Web

Client users are fully aided with the potentiality that only the Movicon™ Web Client is capable of providing without needing to install and process a thing on the Client side. The graphical screen representations are highly reliable and the graphics area automatically adapts to the client's graphic resolutions or to the size of the browser window. The Client enables user interaction and command activation. Events of inserted VBA code can also be managed. All information from Historical Logs and Trends can be obtained with data table displays supporting various filters and order by. furthermore, the Scheduler and IP Camera viewer objects are supported along with their interactivities. The Movicon™ Web Client potentialities are incredibly remarkable, powerful, extremely simple and automatic making the automation-over-the web concept true reality.





Thin Client Model Innovation

Lightweight Multi-platform Architecture

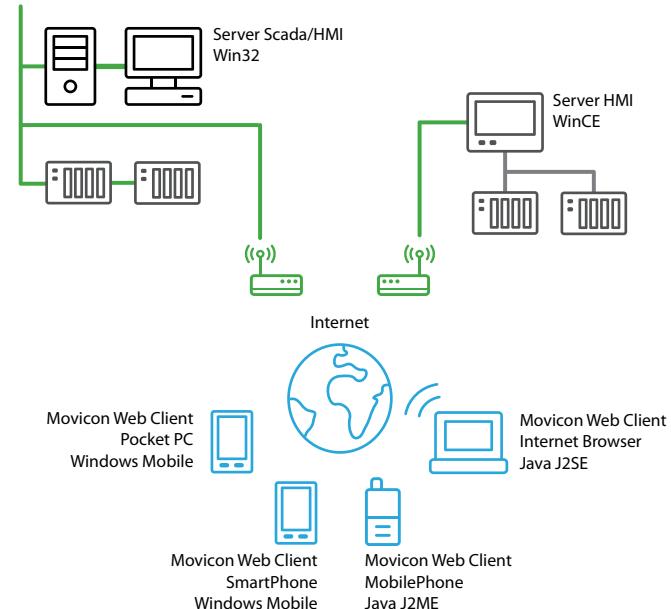
Movicon™ Web Client exploits the Java technology and Web Service communication for visualizing and controlling your automated plant from any client station in local or geographic network. The Web Client solution designed by Progea does not need extra installation or configuration on the server side. Multiuserness, bidirectionality and security are all guaranteed simultaneously without needing 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™ applications for Windows™ CE support Web Client access to enable 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 enable users to visualize and control production processes from any part of the world based on TCP-IP protocol concepts optimized for public networks using a low bandwidth rate. This also comes with an encryption option for truly "web enabled" applications. The innovative advantages of Movicon™ Web Client enable you to monitor and optimize production processes at a low cost. Whatever you happen to be manufacturing, you can get your plant visualized to control and monitor the entire automated system and machines. This will allow you to beat ownership license, development and system maintenance costs. Data is centralized in distributed architectures only where needed: on the Server. Clients can display and interact with the Movicon™ project to which they are connected, without needing additional licenses and development costs thus simplifying maintenance. Modifications executed on the Server will immediately be updated to all Clients.

Secure Architecture

Being aided with the SOAP and Web Services technology, 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 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 in 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. Furthermore, you can configure the graphical project objects to be made visible or invisible on the Web Client side.

Movicon® WEB CLIENT



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 with client executable on a PC, tablet or smartphone.
- Creating Web pages on the server is completely automatic with just one 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.
- Optimized performances, transparent support to the project functionalities and commands using a normal browser.
- Secure data management.
- Notification only on exception.
- Communications based on Web Services.
- Entirely Java-based technology.
- Support to Applet J2SE and Midlet J2ME.
- Multiplatform support on Linux, Windows™, iOS, Android, RIM Blackberry, Symbian.
- Support to Windows 32/64 bit 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.

 Reliable strict quality standard solutions

Progea's technological solutions are based on **immense experience** in this field involving years of constant research for perfection. Years of constant innovation has resulted in **reliable and cutting edge software technology**. So far over **80,000 Movicon™ Scada/HMI platforms** have been installed worldwide. The increasing number of licenses sold each year proves how popular **Movicon** is becoming worldwide. Constant technology innovation, rigorous lab-tested for quality, Progea guarantees users worldwide success with their applications, correlated with expert technical services for value added user satisfaction 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 our software technology and attached services are unparalleled. 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 engineers to be more efficient and productive. Why not become part of 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.

INDUSTRIAL AUTOMATION SOFTWARE

progea

State-of-the-art technology

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

Quality

Research and development procedures, severe and thorough lab test runs, release policies, product documentation, user needs analysis, united together 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 currently used 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 company is large enough to guarantee long term business relationships and assistance all over the world. We are always available and flexible to offer the right solutions for every need.



Microsoft
CERTIFIED
Partner





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. MoviconTM 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 and contribute to keeping implementation and internal development costs low. The international presence of the Movicon trademark is guaranteed. Over 30 MoviconTM distributors and vendors have the mission to sustain the product name's prestige and top quality services worldwide.

OEM Partners

MoviconTM is a very well-known and widely used product in the automation world by major companies from every industrial sector. It is also used with different brand names and distributors according to the Progea OEM partnership policy. This policy permits the use and customization of their Movicon technology under different product names and licensing formulas. Progea is proud to have been chosen by many of the leading players in the industrial automation sector. The Progea technology is used and distributed without the Movicon trademark by international companies which include Phoenix Contact, Panasonic, ASEM, VIPA, KEB, Suetron, just to mention but a few.



Panasonic
ideas for life



SÜTRON





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 captivating look and completely customizable. 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 vector graphics (Scalable Vectorial Graphics) with powerful graphics features and Anti-aliasing. Support to WMF, EMF, BMP, GIF, TIF, JPG and PNG graphics. Auto-fit graphics to screen resolution with effective rendering for bitmap images as well. Alias parameterization management.

Multi-Monitor and Multi-Touch support with screen-monitor assignment, with full native support to touch screen and multi-touch gestures including double-tap keys.

Symbols with Power Template technology. Symbol graphics completely customizable using VBA scripts as well.

New classes of analog display objects based on .Net technology with unrivaled graphics.

Vector graphics editing functions, with powerful design and layout tools with 32 display layers. Objects with effective heredity concept support to Alias parameter management.

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-project engineering 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 value and statistical values management (ie. for analytical 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 (i.e. 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.



Event historical log management with open archives based on relational database (ODBC). Statistical alarm analysis, filters and SQL query.

Automatic Recipe Management based on relational DB or text files. Recipes are auto-configurable and DB file and interface management (customizable) can be automatically obtained within a few clicks.

Built-in Report Designer. Powerful and flexible Report Management thanks to the built-in Report Generator based on .Net, with powerful calculation, analysis and graphic display functions. Plus the Crystal Report engine v.10 has also been integrated. Front-ends report generating with customizable print formats. Support to complex formula and graphics in Reports. Reports also available in WinCE (textual).

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 functions also 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 and GAMP5 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 with complete security and reliability in all situations with total and transparent availability. Secondary Server automatically takes over instantly upon communication failure.

Powerful Client/Server management. Each project is easily configurable both as Client and as Server. Objects support direct connections to remote Server data. Client projects can be centralized on Server or independent and local to the Client station.

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's properties.

Extremely efficient connectivity, using already included I/O drivers. Built-in OPC DA and OPC XML DA technology both as Client and Server. Certified OPC compatibility. 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 supporting 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 (Win32 or WinE).

Visual "Synapsis" Language (Function Blocks with graphical objects) using graphical designing techniques. Each graphical symbol can become a Synapsis 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 Win32/64) as well.

Innovative integrated Web Client technology. Web Client is based on Java technology, truly web-enabled to ensure openness and multiplatform maintaining performances, security and bi-directionality. Data access from client workstations also by those based on Tablet and Smartphone using App for Apple iOS and Android. No additional installation needed on Client and Server.

Native support to IP camera. Images can be displayed on WinCE and Web Client.

Support to standard technologies: XML, ActiveX, ODBC, OPC, VBA, SQL, ADO, SOAP and Web Services.

Third party application integration freedom no matter whether .EXE or .DLL. Free Drivers provided for I/O sharing in shared memory. Option to use SDK for creating custom drivers.

Unmatched project scalability. The same XML project can be run both on Win32/64 or WinCE. Projects are also modular and can be distributed thanks to the 'parent-child' architecture.

Data import from PLC. All the principal Drivers support automatic Tag import from the PLC program. Tag importing from any system (i.e. Ms Excel) is also supported.



English Ed.
October 2013
Rel. 11.4.1150

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