Movicon® 11

MONITORING VISION AND CONTROL

The most innovative, flexible and scalable technology for SCADA/HMI software

progea
1991-2011
20 ANNIVERSARY

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

The open and flexible Movicon™ architecture has the best Scada/HMI solution with applicability in all automation sectors.

INDUSTRIAL AUTOMATION SOFTWARE

progea

Present in your future

Guaranteeing steady non-stop production process information flow in real-time from field sensors to monitoring, control and analysis systems is imperative to every company wanting to manage modern production plants effectively, improve efficiency and increase business. Movicon™11 is the best solution available today for all companies that want to develop and maintain supervisory control application, user 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 applications reducing developing times to the minimum to 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 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 depends on the openness and indepency of your applications and the time and resources spent in developing them.
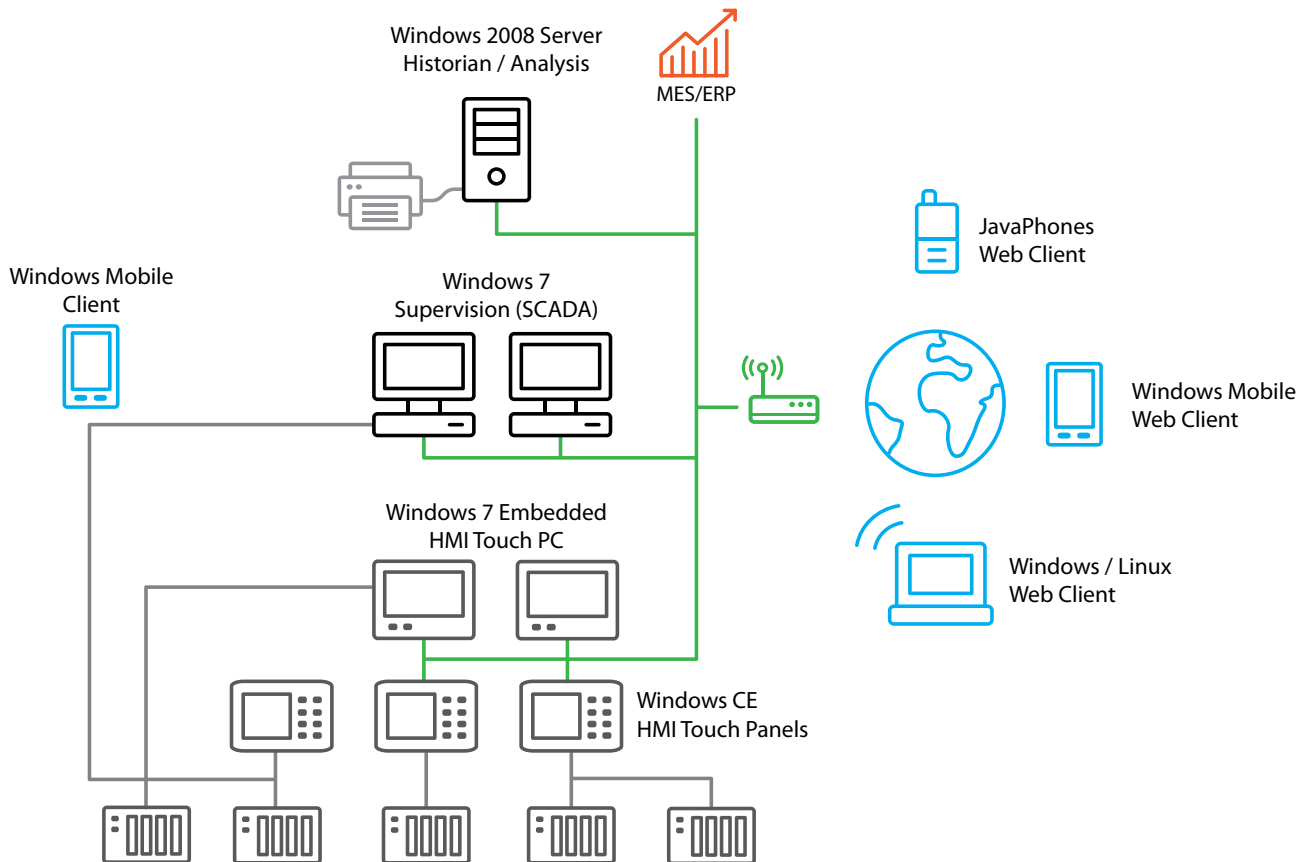
Flexible Supervision

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

Being flexible is one of the major needs in modern automation. Flexible means adapting quickly to client demands without sacrificing work accomplished and know-how. This is where Movicon™11 offers the highest guarantee to protect your investments simply because with this just one software in your company you will be able to satisfy all your automation application needs. From Control level (PLC, HMI) right through to Scada/MES Enterprise levels. Movicon™11 is a real flexible platform, capable of adapting to all modern automation application typologies. Thanks to this characteristic, you can reduce costs just by having the one visualization and control software in your company to cover every single need to save you a great deal in terms of learning, upgrading and personnel training.
 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 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.

Windows 2008 Server
Historian / Analysis

MES/ERP

Windows Mobile
Client

Windows 7
Supervision (SCADA)

JavaPhones
Web Client

Windows Mobile
Web Client

Windows 7 Embedded
HMI Touch PC

Windows / Linux
Web Client

Windows CE
HMI Touch Panels

No matter what you have to 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 is **reason enough to use planning tools capable of reducing development times accompanied by expert support and technical help services to protect your investment**. Movicon™11 is based on innovative concepts and designed just to do this. Progea's intense Research and Development, together with their vast experience in supervision software, has empowered them to reach the cutting-edge of quality and technology available in today's world of software for industrial automation. Their mission to provide an all-in-one platform has become a company standard realized with Movicon™11, where ideas and innovations merge together to become a concrete technological basis. These technology innovations will reduce your software ownership costs (training, support and maintenance). The specially designed Movicon™11 tools empowered with major intuitivity will drastically reduce development and application debug times, paramount to any company using Scada/HMI systems, while keeping your work safe and sound.

Integrated solutions for your every need

➔ **Scalability**
Movicon™ 11 is an all-in-one software platform from Windows™ 7 (Win32/64) to Windows™ CE. 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 plants.

➔ **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 maximum 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 and Password manager guarantees safe access for 1024 levels and/or 16 areas. The built-in Ms Visual Source Safe guarantees that work is safeguarded 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. The

drivers guarantee full configurability and possibility to communicate on custom. The SDK and "Shared Memory" driver guarantee openness for creating your own drivers autonomously. Not only do you get a free and included driver library, Movicon™ 11 also provides you with total connectivity via OPC whether as Client or as Server.

➔ **Very Efficient Networking**
Movicon™ 11 has a sophisticated Networking technology capable of getting any HMI or Scada station connected up in network in a second. Any Movicon application can be a network server to other stations, (WinCE or Win7), and client stations are connectable 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). Movicon ™ projects can be Server and Client indifferently and at the same time. Client projects can be distributed and run locally on the client while residing on the central server. The Movicon™ 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.

Movicon™ 11 integrates the Web Services technology, consenting information distribution support to public networks (over the internet) with "Firewall-friendly" technologies providing the best security.

➔ **Web-enabled Architecture**
Movicon™ 11 offers the best 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 telephones thanks to J2ME). Multiuser, bidirectionality, performances and security are guaranteed for cost and maintenance effectiveness. Servers can be both Windows™ 7 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.

Avant-garde technology available to everyone

The Movicon™11 workspace is the result of indepth research in software ergonomics with the scope to make the product simple and a 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 and Tag importer tools. Planning becomes a breath-of-fresh-air and immediate with Movicon™11. Get great visual impact within a few clicks while rest assured that your investments are well safeguarded.

Compatible with
Windows®7

Microsoft
Windows CE

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

Graphics Editor and workspace, Screens or IEC1131 Logic.

Properties Window. Simple and user-friendly for configuring selected objects and resources.

Project Explorer. Easy access to all project resources.

Toolbox, Object Library, Graphical Symbols and Templates.

Drop-down Command pane relates to the resource selected.

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 tool for correcting errors automatically.

Intelligent Editor

Simple, complete and intuitive, designed for fast project engineering.

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** thoroughly usability and ergonomic tested (in collaboration with the university computer science research departments) with optimum results. **Movicon™** has been designed intelligently to fit all user needs to be more productive within less time and effort, with maximum deployment flexibility capacity without diminishing potentiality. **The Movicon workspace is transparent, pleasant and intuitive.** All the tools are ready-to-use at easy reach. Configuring is entirely done using the vast range of object libraries and resources, all fully customizable through their properties window. The properties windows, which can be moved, positioned and docked as pleased, provide all the properties divided logically by group and sub-groups. The vast number of configuration properties has been purposely provided so you don't have to keep reverting to script code, saving you time in planning, project debugging and maintenance.
The main Movicon™11 Intelligent Editor features are:

➔ **Extreme simplicity-of-use** in one single built-in Editor. The one same Editor can be used to create projects for with Windows™ 7, 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 displaying** only the most common properties for user discretion and further system use simplicity.

➔ **Refactoring**, tools for automatic correcting wrongly assigned tags to objects, windows and missing text strings.

➔ **Enhanced Cross Reference**, built-in and interactive. Variable use in projects always under control.

➔ **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 then be encrypted when desired.

➔ **Object-oriented 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.

➔ **Alias and Public Symbol management** with heredity criteria. Libraries can be Centralized and expanded.

➔ **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** with built-in support to FDA CFR21 Part 11 regulations.

➔ **Free included I/O drivers**, with automatic Tag importing from PLC with direct link to device. Library can be added to and customized with SDK.

➔ **Powerful On-Line Debugger** with functions to analyse and simulate projects locally and in remote mode.

➔ **Built-in IEC-61131-3 SoftLogic.**

➔ **"On Line" project modifications**, local or remote.

"Captivating" Visualization

Powerful graphics means better application intuitivity.

To visualize production processes is paramount to any supervision system. The more transparent, the more efficient factory management becomes. Unlike before, more users are looking to a more realistic presentation of their plant systems. They want that immediate look, feel and touch experience to promote that extra sensory perception. They want to be there without being there.

Real life, live and working plants on screen. The real thing can only be achieved with Movicon™11, a supreme leader in great visuality, offering you a vast range of the most powerful graphics ever:

➧ **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**, consents to creating symbols with preset functions, simple animation 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** for vectorial, bitmap graphics and in Web Client visualization as well.
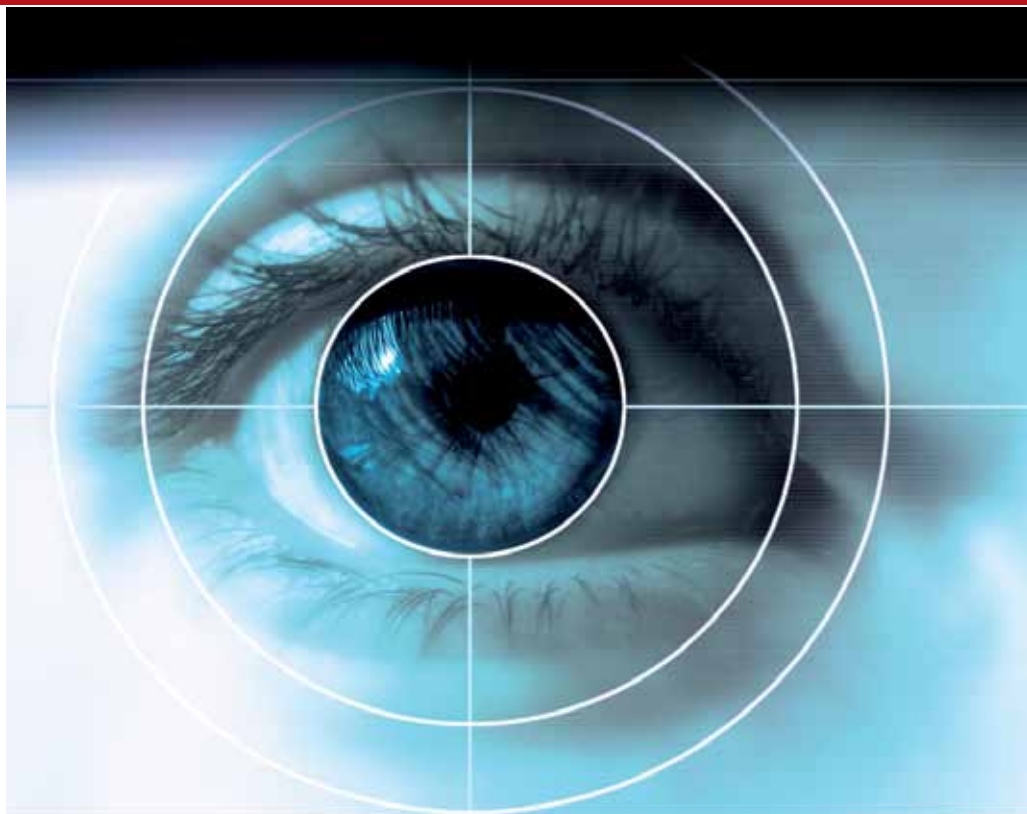
➔ **Built-in support to multi-monitor systems**. Possible to define which Monitor screen is to be opened.

➔ **Graphical object XML structure inspection** internally as well as from 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 same category. The Alias management allows symbols to be customized (both in runtime and development mode) In function with their Alias tables.

➔ **Supports different Windows "Styles" and "Themes" technologies**.
Projects and screens aspects can change In according to styles they have been assigned with.

➔ **Built-in native objects for visualizing images** transmitted from IP cameras and also in WinCE and WebClient.
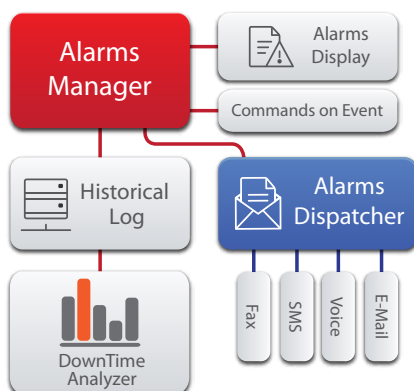
Alarms:
All under control.

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 numerous 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 spans preset 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.

➜ 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. This is where the alarms play an important part and are configurable in all **Movicon™ projects**. 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 (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 pleased and supports notifications in TTS SAPI S.1, E-mail SMTP and MAPI protocols, SMS (GSM and SMPP) protocols.
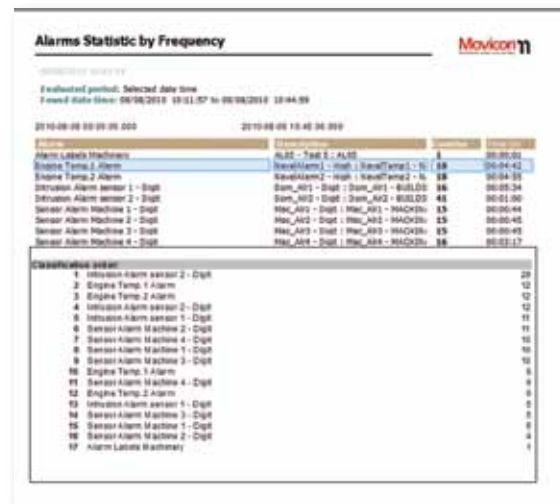
➤ Analysing, Filtering, Ordering by

The Alarm Window and the Historical Log Window are tools 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 to suit any need. 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.

➤ 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 on set-points relating to the variable's total ON time. To make life easier for the system operator, external files can be easily associated for activating userfriendly help files (HTML), movie files (.AVI), sound files (.WAV) or BMP files.

➤ Statistical Analyser

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 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

Supervision systems collect, record and store process data for further use.

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, 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**
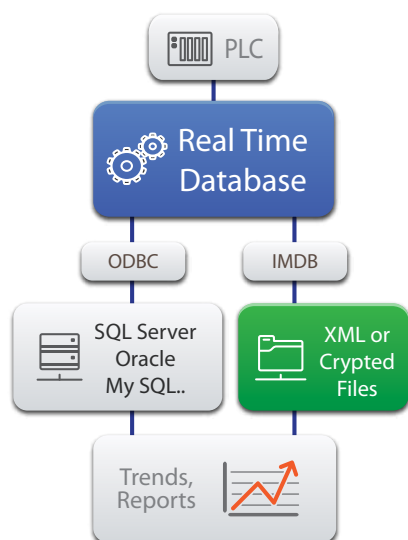
task of the variable Tracing management (Audit Trail). As an alternative to the ODBC recording engines, Movicon™ also offers the use of an IMDB manager (In Memory DB) which permits you to record data (Data Loggers, Events or any other data) in simple text format files (.DAT or .XML). These files can 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 and is **particularly indicated** for Embedded systems (WinCE), or those needing 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**.

PLC

Real Time Database

ODBC | IMDB

SQL Server Oracle My SQL..

XML or Crypted Files

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 any Scada system.

The great simplicity of the Textual Reports allows you create reports on RTF or HTML files also for simple compact systems (such as WinCE) as well.

➜ 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 for 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 into one screen, printed and much more. They are completely configuarable in runtime to become truly powerful Trend Template objects using the VBA functions. The Data Analysis feature produces more thorough detail than the Trends do, providing sophisticated graphical visualization of historical data recorded by the Data Loggers. The Data Analysis object can quickly analyze 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 instantly perform measures by plotting lines between various points in the graphical data analysis image to highlight the value differences.
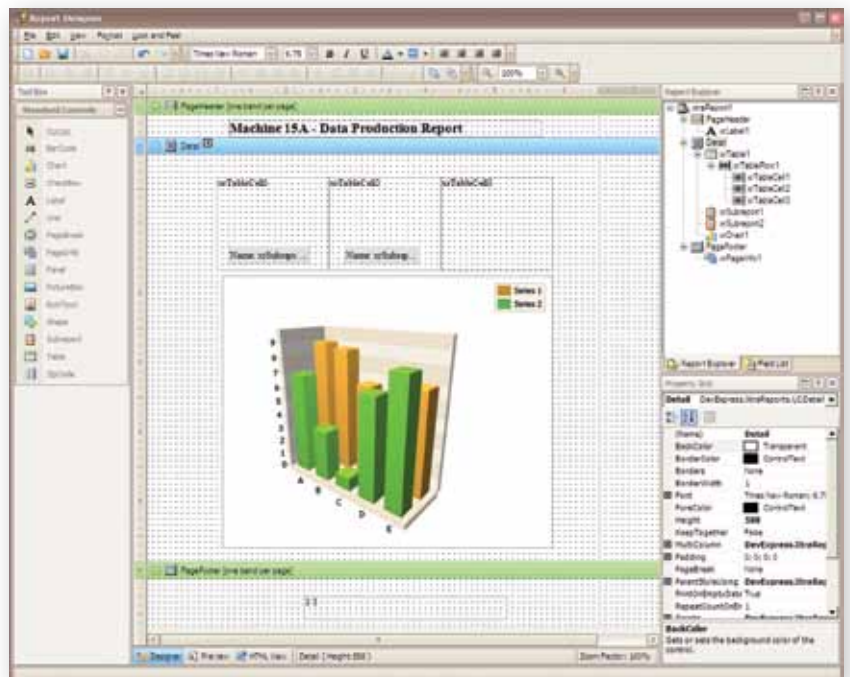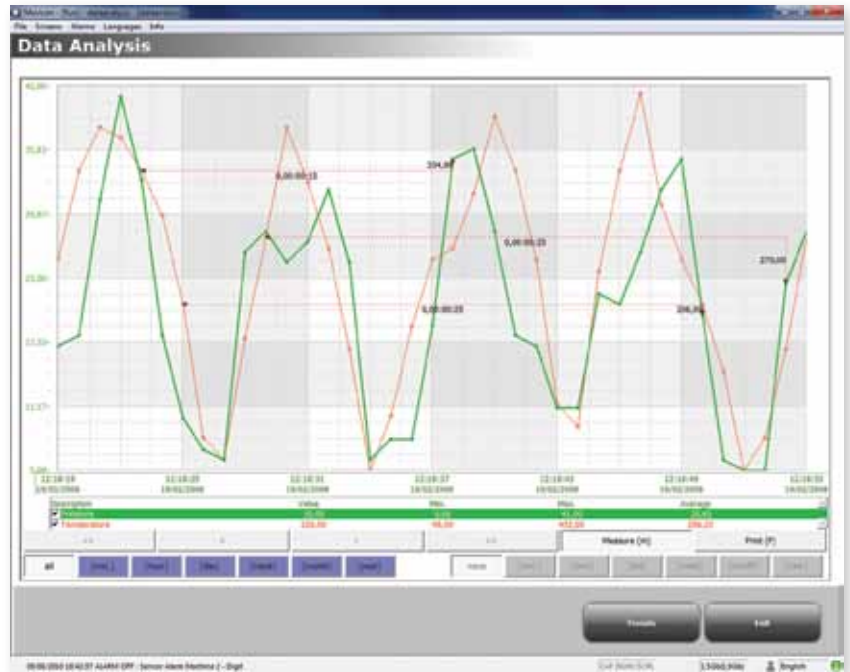
No Limits Connectivity

Excellent built-in I/O Drivers and Networking for fast 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 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 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 is direct at an instant double-click on Client station. The Server stations can be based in Windows™ 7 or Windows™ CE Windows indifferently. Communication in net is based on the TCP-IP transport for default and can be completely customizable to adapt to any need setup by network administrators users, by simply 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
Movicon11™ provides maximum openness to custom communication systems. A 'neutral' driver permits access to realtime variables using the shared memory. Movicon11™ 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.
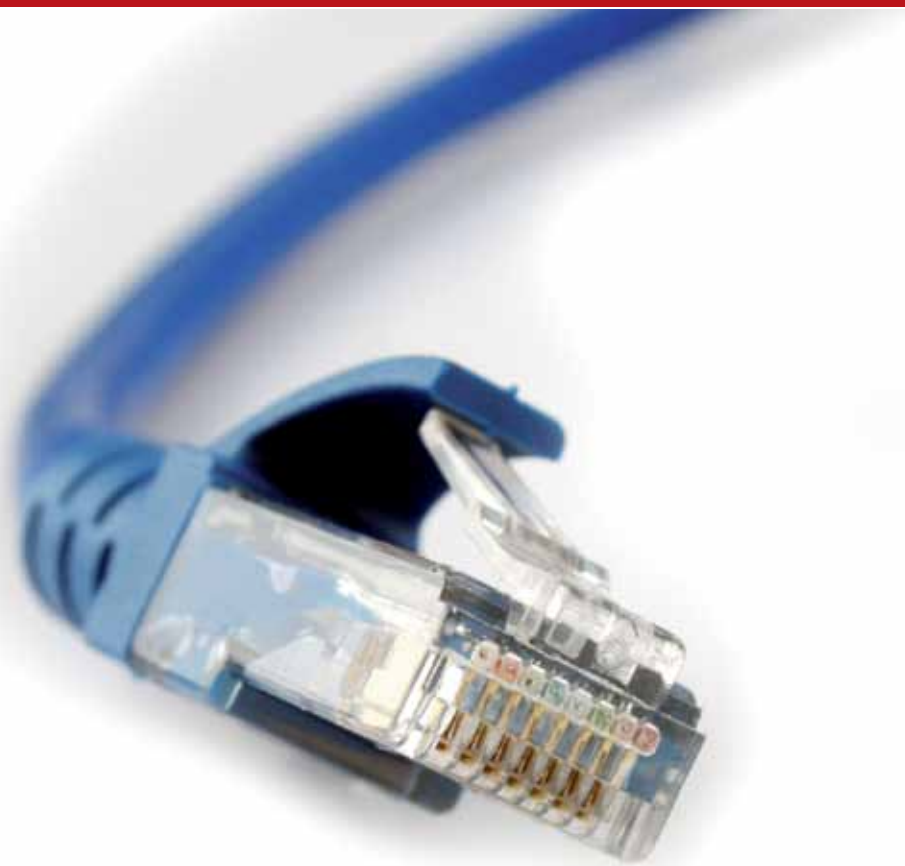
Top level Protection

System access with maximum security and FDA compliancy

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 compliancy (The USA Food and Drug). 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 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, Movicon11™ supports Windows™ 7 Services and consents total or partial blocked access to Windows™ desktop. Data is recorded on safe relational databases (SQL Server or Oracle) and in propriety 128 bit encryption format.

◥ User Management
Movicon™11 allows 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 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.

Designed for FDA 21 CFR Part 11

◥ Built-in Visual SourceSafe™
Movicon™11 has built-in native support to Microsoft Visual SourceSafe 6.0, a powerful tool which consents project management and access across networks. This is very helpful for developer teams working on the same project at different angles and locations. This tool guarantees **full security**, multiuserness, and modification traceability and retrieval of other project versions. Developer team projects are also managed with top security levels.

◥ Powerful Redundancy management for Mission Critical applications
Movicon™11 guarantees reliability backed up by 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.** Data synchronization Is managed for both historical and dynamic data, guaranteeing the most efficient and safe data integrity in any situation not matter how serious and is completely fail-safe.

User Access

Log On
1024 Levels, 16 Areas

| Eletctr. Signature | Commands | Audit Trail |

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 awarehow 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 most straight forward 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. No need to write codecode as command actions can now 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 Functions**
The complete support of HMI devices with Touch Screens is a fundamental
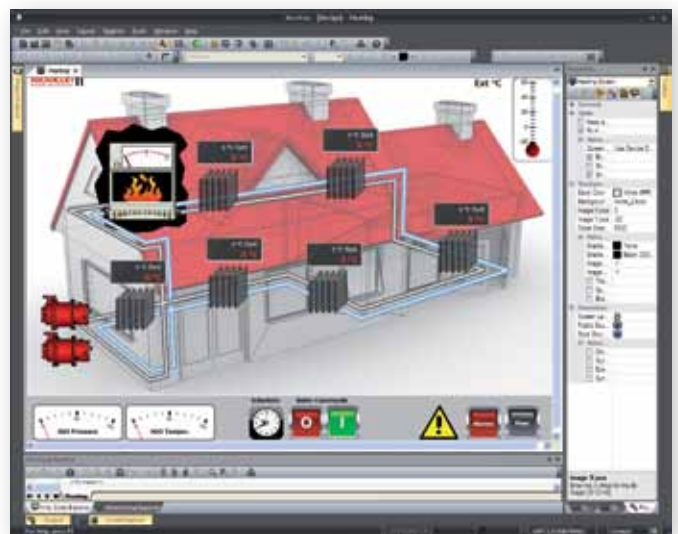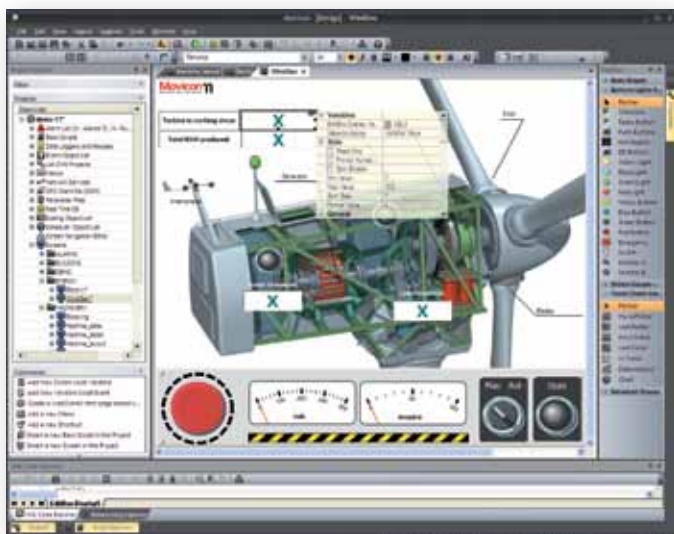
requisite for **supervisory systems**. All objects that need to be set with data can be associated to a virtual system keypad (NumPad or Alphanum Pad) or to a custom replacement. Support to Touch Screens is **totally automatic**, easy and effortless with purpose-designed and **fully customizable Movicon™ 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 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.

➜ **Editor Menu**

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 like all the other objects. When used on screen, it shows streaming video images from the IP video camera. The great advantage you get from using this feature is that images can be transmitted via Web or shown on HMI panels based on Windows CE, with great simplicity and no complications attached.

Multilanguage Projects

The Movicon™11 projects are truly "international" capable of containing 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 are managed in a String Table within the project, which is completely compatible

with copy&pasting directly from the Ms Excel™ Editor. Each language corresponds to an XML text file. Each language can be changed and activated immediately whenever needed both in Editor or Runtime mode. Different languages can be associated to different users so that system font will automatically change language according to 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 able to deliver solutions to cover the entire complexity of out-of-the norm demands. Even though part of a Scada platform's mission in life to reduce or avoid using script and code altogether, this is not always an option. In some cases they are indispensable 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. Whatever your task, it can be accomplished with Movicon™11 thanks to the built-in languages offering the best and 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 type of system functionality. 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 but a few. The Movicon™11 VBA language guarantees multithreading, meaning that diverse VBA script can be executed at the same time, providing 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, 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 the Synapsis language. Based on the integrated VBA engine, the synapsis language permits you to create logic block graphics 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 where you can also create and add your own. This innovate feature allows you to differentiate graphically the conventional function block using a variety of symbols (i.e. Motors, valves and other symbology-like).
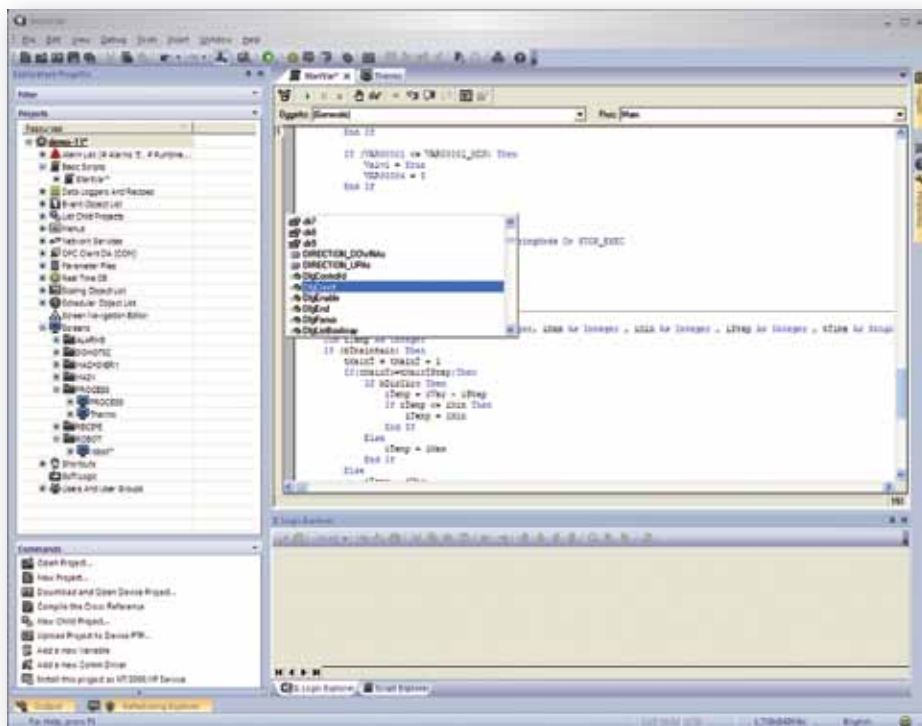
Open up
new horizons

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

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 and straight forward to use, this technology is purposely aimed at benefitting users with unsurpassed 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 old 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 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 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 automatic connection.

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 structure. This all adds up to much greater management simplicity, significant reductions in maintenance costs and maximum information transparency.

➔ Applications

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-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.

Thanks 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.

➔ 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 to suit your needs.

➔ Machine information integration in enterprise-wide networks

Movicon™CE allows you to connect your HMI Touch Panel to your enterprise network, consenting to a much improved 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 nearly all of the graphical functionalities found In 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 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, all ready-to-use within the one powerful, simple programming environment that only Movicon™ can truly provide.
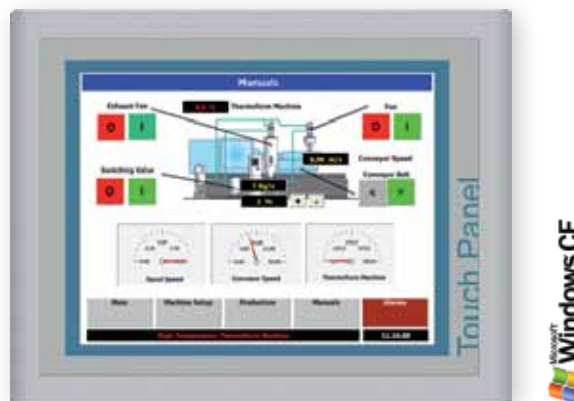
➔ Cost Effectiveness

As Movicon™CE permits you to use just the one developer environment in your enterprise, whether it be Scada supervision on PC or/and remote HMI operator terminals, this will save you costs in learning, training personnel and maintenance. Thanks to **Movicon™CE** you can visualize and control your machines using the Microsoft Windows™CE OS ensuring **maximum scalability possible** to your software platform while safeguarding investments. Movicon™CE is today the most powerful HMI platform available for Windows™CE, capable of satisfying every visualization and control requirement in a 'compact' environment, without compromising on Scada potentiality.

➔ Remote Control and Teleservices

Movicon™CE guarantees remote accessing via modem for accessing remote operator terminals or consenting users remote access to connected PLCs in the most transparent way, indispensable also for obtaining complete maintainability at a distance for instance. 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 independenc

• 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 with a huge range 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

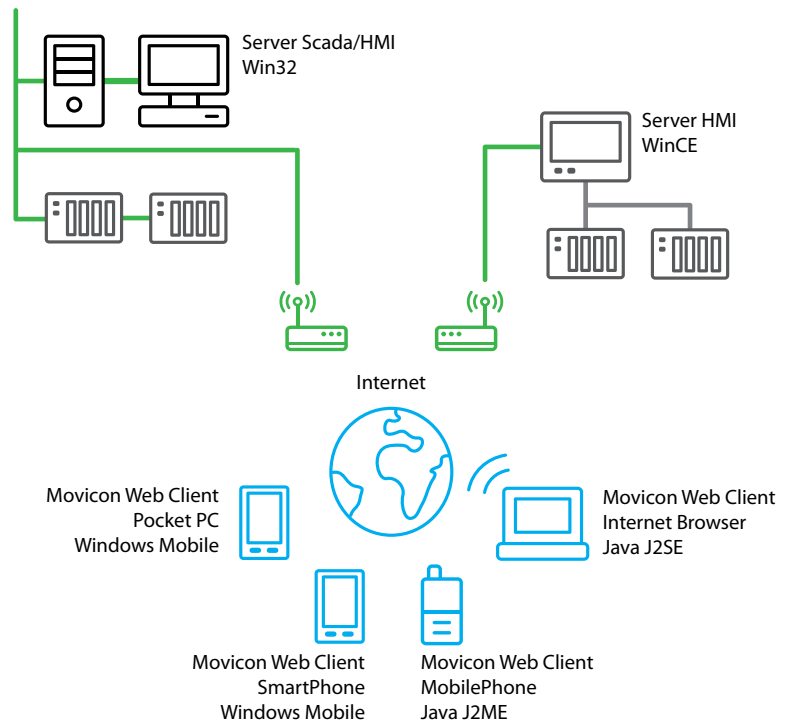• Project Debug and Upload

• Web Client technology

Information
accessibility anywhere
throughout Internet

Movicon®
WEB CLIENT

Web-based architecture

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

Being able to obtain realtime factory information no matter where and when is indispensible and a definite 'must have' to any manufacturing company. Every company's prerogative to stay competitive is one of the main concerns for Progea and one of the reasons why they have 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.

Server Scada/HMI Win32

Server HMI WinCE

Internet

Movicon Web Client Pocket PC Windows Mobile

Movicon Web Client Internet Browser Java J2SE

Movicon Web Client SmartPhone Windows Mobile

Movicon Web Client MobilePhone Java J2ME

➜ 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™ applications for Windows™ CE support 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 happen to be manufacturing, you can get your plant visualized to control the entire automation system plus machines sustaining and beating 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 and 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 a significant advantage of having the Java 'multi-platform' technology on client side.

Accessing factory data through the web can be done not only with the Microsoft platforms, but also with **Linux, Mac, Palm client stations or any other 'Java-Enabled' platform**. As Server advantage point applications can be always run by Movicon runtime on Microsoft Windows platforms, but the greatest 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 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.

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 anything 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, making the automation-over-the web concept true reality.

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.
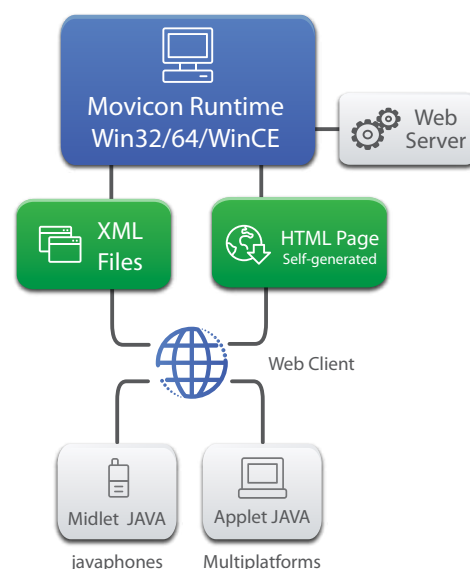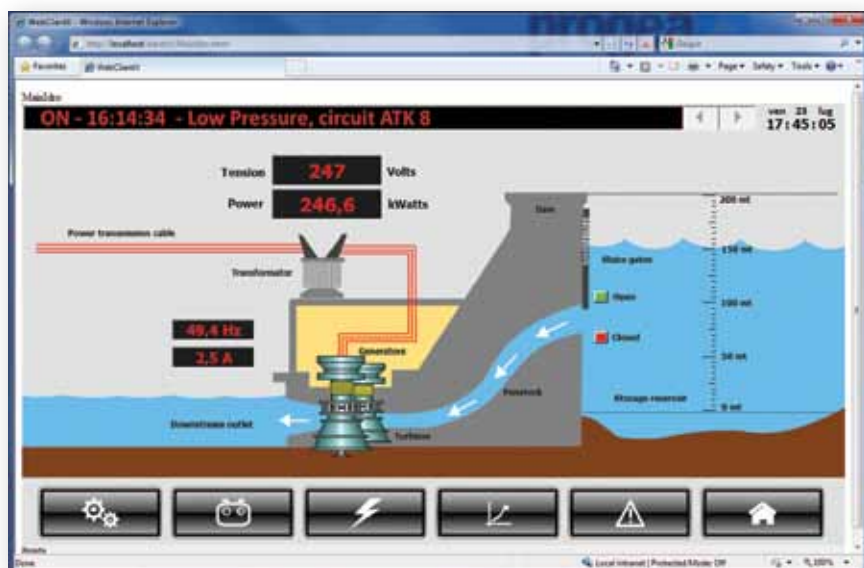
➔ Creating Web pages on the server is completely automatic with just one click.
➔ Project screen navigation as provided on server, with possible restrictions due to navigating regulations on Web side.

➔ No need to install or configure extra on Client or Server.

➔ Enhanced 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 Client side (Linux, Windows™, Palm, Symbian, JavaPhones).

➔ Support to Windows™ 7 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 Mobility

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.
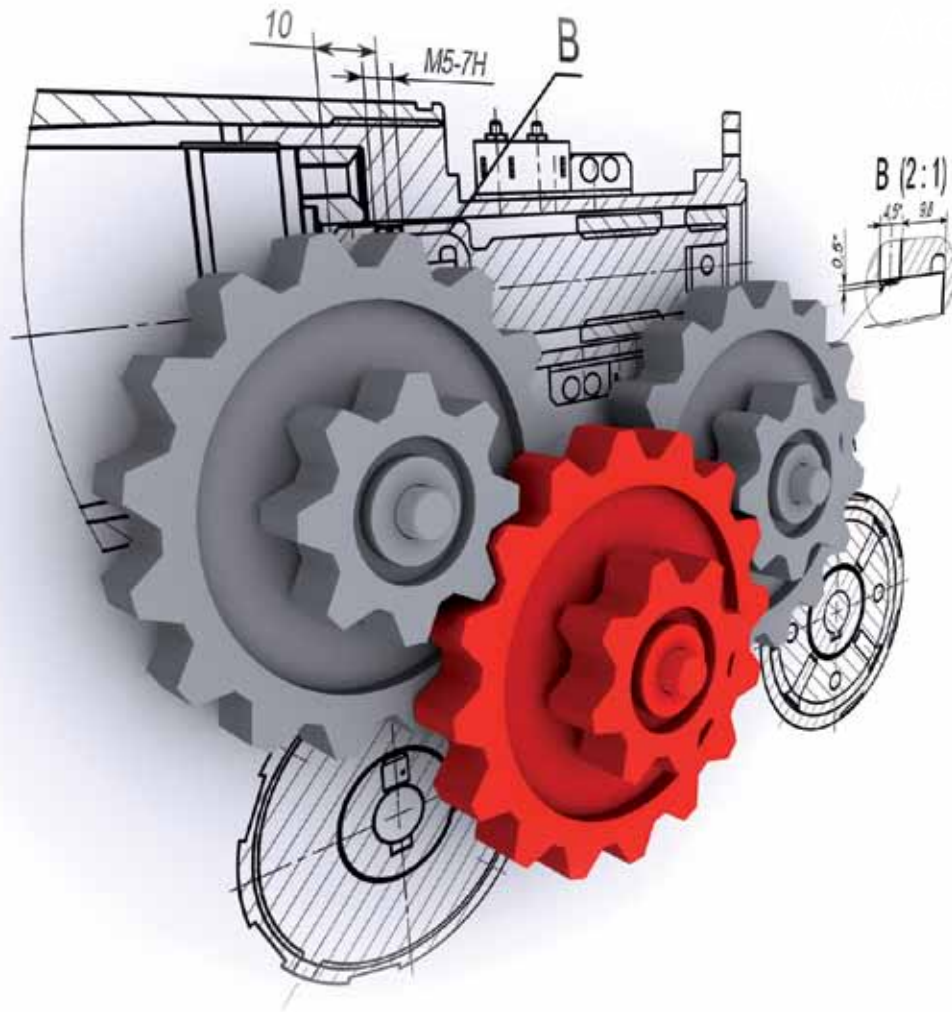
SOFTLOGIC IEC 61131-3
The PC-Based solution
for true independence

Logicon

PLC+HMI rolled into one unique platform

Reap the benefits offered by visualization and control integration.

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.
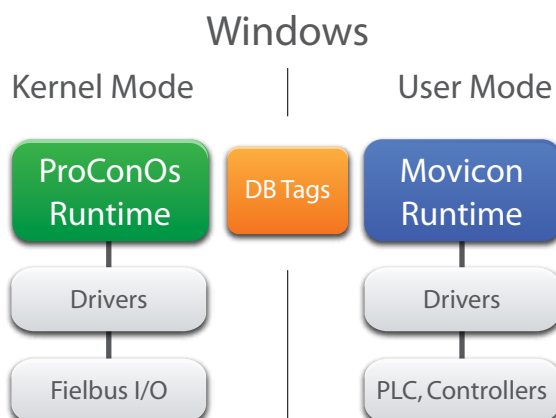The dream to integrate every design engineer need in a one-only platform has finally come true and today is a reality achieved with Movicon™11. You only need to use just the one product to create both PLC and Scada/HMI projects. Integrating Movicon™11 in your enterprise will save you considerable time 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™ 7 or Windows™CE indifferently.

Logicon is Progea's proposal for the field of SoftLogic, and is the **result of close teamwork** with the German KW-Software. Progea has chosen a market leader company for integrating its SoffPLC 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 5 of the 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 (i.e. Simatic S7, Rockwell, etc) or items from any OPC Server, and display Tag lists automatically in the two Scada and SofLogic environments. The variables of 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™ 7 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 filing Archive Storage.

Windows

Kernel Mode		User Mode
ProConOs Runtime	DB Tags	Movicon Runtime
Drivers		Drivers
Fielbus I/O		PLC, Controllers

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 **60,000 Movicon™ Scada/HMI platforms** have been installed worldwide. The increasing number of licenses sold each year proves how popular **Movicon is becoming globally.** Constant **technology innovation**, rigorous lab-tested for quality, Progea guarantees users worldwide success with their applications, accompanied 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.

➔ State-of-the-art technology
Movicon™ is often used as a reference point for its technological characteristics that not only satisfy a diversity of current demands but any forthcoming or unexpected as well.

➔ Quality
Research and development procedures, severe and thorough lab test runs, release policies, product documentations, 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 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 always available and 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 and contribute 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.

"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

OEM Partners

Movicon™ is a very well-known and widely used product in the automation world by major companies from every industrial sector and through different brand names and distributors according to the Progea OEM partnership policy which permits the use and customization of their Movicon technology under different product names and licensing formula.
Progea is proud to have been chosen by many of the leading protagonists in the industrial automation sector. The Progea technology is used and distributed, even though not necessarily under the same Movicon trademark, by international companies which include Phoenix Contact, Panasonic, ASEM, VIPA, Suetron, just to mention but 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 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 (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-adapted to screen size plus rendering for bitmap images.

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

▶ **New classes of analog display objects based on.**
Net technology (Windows™7 only) with unrivaled graphics.

▶ **Vector graphics editing 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 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.

▶ **Automatic Recipe Management based on relational DB or text files.**
Recipes are auto-configurable and DB files 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 compliant applications very simple to create. Integration with Ms. Visual Source Safe for distributed planning in topmost security with project modification traceablility.

➜ **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 WinCE).

➜ **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.

Compatible with
Windows® 7

Microsoft
Windows CE

Progea is a leading company in Scada/HMI software solutions.

In operation in the software sector for automation since 1990, Progea now boasts innovation-oriented technology beyond the cutting-edge, with a young highly motivated team and steady growth in the international automation market.

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TÜV

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