



# The new generation of technology Scada / HMI





INDUSTRIAL AUTOMATION SOFTWARE  
**progea**  
Present in your future

Our history testifies our passion for innovation. Researching for cutting-edge technology and providing top quality products and services is part of our company's DNA, empowered by a group who are young, dynamic, immensely motivated and customer-oriented.

*Paolo Fiorani  
CEO Progea*





# **Movicon.next**<sup>TM</sup>

THE SCADA/HMI NEXT GENERATION **version 12.0**



The new and evolutionary Movicon™ “next generation” has arrived, the **Scada/HMI** software technology that redefines the concepts of supervision and control.

A new user experience based on unprecedented graphics combined with the new **Multi-Touch and Kinect** interactivity concepts.





# The new generation of SCADA/HMI technology



## The Supervision Software soars to higher levels never reached before

Technology must constantly evolve to compete in the world of automation. Being evolutionary is far from a simple task. It is not just a question of introducing new features or making improvements here and there. It means finding the courage to confront new challenges head on, completely rethinking work and brainstorming better ways to explore new technologies and frontiers and putting them to work. This is the only way to make the imaginable a reality.

Movicon.NExT™ is the new frontier of SCADA/HMI technology. We are not just dealing with the usual enhanced Movicon platform but a completely new platform redesigned on the technology of the future. This is the fruit of Progea's twenty years of experience in the automation sector and a new reference point for SCADA/HMI software. The Movicon.NExT™ project has been engineered to provide next-generation technology alongside current SCADA/HMI technology as a native base for engineering advanced technological solutions. These solutions not only build solid foundations for long term investments without compromise, they can also be created in ways never imagined before in the world of automation.

An innovative workspace, completely integrated work environment, a framework by Progea with customizable plug-in technology, revolutionary graphics with enriched symbol libraries containing smart graphics of every typology, an open communication model, independent persistent data architecture, high performing and cross-platform web technology- it's all there. The whole Progea experience combined with our great capacity to be innovative, has empowered us to engineer an extremely ambitious project that results in Movicon.NExT™, a most exceptional product ahead of its time and a role model for all future SCADA/HMI architectures.

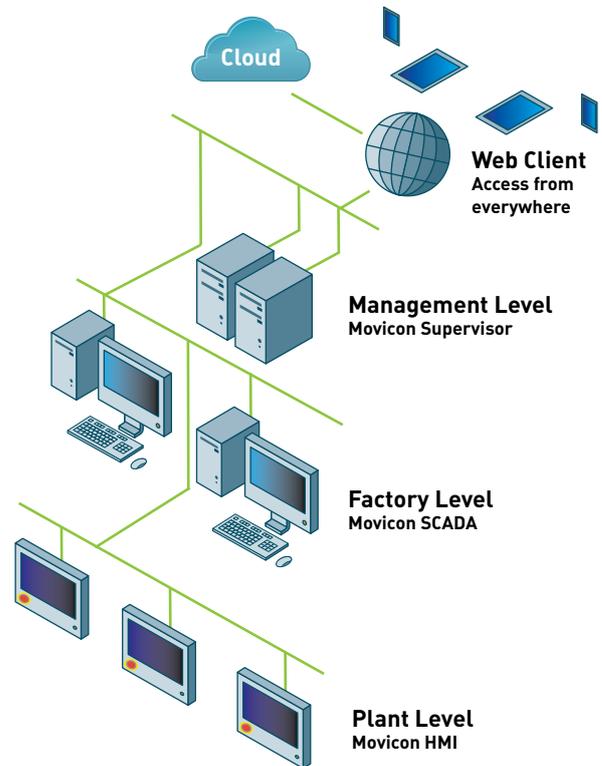


# Software architecture designed for the future

## What makes the Movicon.NExT™ Scada/HMI technology so revolutionary?

The technologies used in Movicon.NExT™ are the best and most innovative in existence giving the user of a SCADA/HMI system a completely new experience and more advantages never thought possible before.

- **Plug-in Framework**  
The new Movicon.NExT™ technology is based on .NET code that exploits the 64 bit system potentiality with a framework purposely designed to guarantee reliability, openness and performance. This platform uses the plug-in model to guarantee full customization of modular systems and integration of new customized modules. The Movicon.NExT™ framework offers a rich suite of functional modules capable of guaranteeing rich and complete supervision and user interface solutions with total openness and expandability.
- **Exceptional WPF and XAML graphics**  
Movicon.NExT™ offers a new user interface concept that uses the latest generation of DirectX graphics acceleration to fully exploit the exceptional quality of WPF/XAML vector graphics technology in 2D and 3D. A rich selection of New Generation Object and Symbol libraries has been provided offering native support to the very latest multi-touch and Kinect user interface technologies with Windows™8 style and navigation.
- **APP WinRT, Silverlight and HTML5**  
Movicon.NExT™ offers new generation client solutions that include APPs for WinRT and Windows Phone, and integrates the new Web Client technology to allow access via the web to servers using the Microsoft Silverlight or HTML technologies, allowing users to choose which client technology best suits their kind of architecture.



- **OPC UA and I/O Driver Connectivity**  
Movicon.NExT™ is based on a client/server architecture using the information model defined by the OPC UA standards that exploit the WCF technology in the communication infrastructures. Furthermore, the server's real time database integrates a great number of I/O drivers.
- **Database Performing and Cloud**  
Movicon.NExT™ uses the Virtual File System (VFS) to render applications independent from persistent data models. This enables the user to freely connect to relational databases (i.e. SQL Server), use cloud computing (i.e. Azure) or use normal XML files on disk for historically logging and archiving process or project data.
- **Users and Memberships**  
The Movicon.NExT™ security model is based on user login authentication with Membership management to ensure maximum security and openness towards integrating authentication systems from diverse providers.

# Innovative solutions with solid technological foundations

## New software architecture concepts

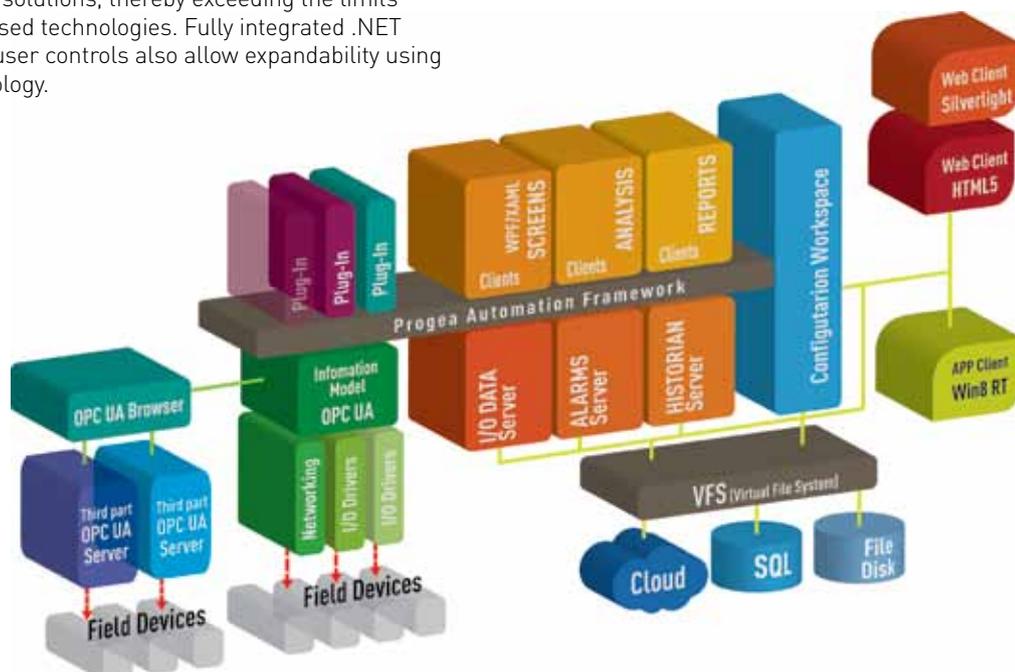
Movicon.NEXt™ has been designed using innovative criteria to drastically reduce development time that constitutes more than 80% of project engineering costs. Progea's extensive research and development work combined with its vast experience in supervision software has permitted Progea to reach the highest level of quality and technology currently available in industrial automation software.

Reducing development time is a primary concern for most SCADA/HMI user companies. Movicon.NEXt™ is fully equipped with just the right tools to guarantee that your work is safeguarded, allowing you to reduce development time but not quality to produce the best results.

Progea's mission is to provide a unique all-in-one platform in which company standards can be realized with Movicon.NEXt™, where ideas and innovation are turned into solid technological pillars supported by a sound foundation. By using the plug in technology, the Movicon.NEXt™ platform is totally integrated but at the same time modular, meaning that it is fully open for integrating plug in modules customized in the Progea UF Framework. This allows users to expand potentiality by customizing the system toward vertical solutions, thereby exceeding the limits imposed by closed technologies. Fully integrated .NET assembly and user controls also allow expandability using the .Net technology.

### Technological differences:

Technologies Movicon 11	Technologies Movicon.NEXt
C++	C#
MFC/COM	.NET
GDI, GDI+	WPF, XAML
Proprietary architecture	Framework .NET, technology Plug In
projects XML	projects on SQL Server, XML, Cloud
historical by ODBC	historical by Providers (es. ADO.NET)
Information Model proprietary	Information Model OPC UA
Web Client on JAVA	Web Client on HTML5 and Silverlight





# One architecture for the next generation of SCADA/HMI

## One new working environment

The Movicon.NExT™ workspace is the result of empowered Movicon technology derived from software ergonomics studies, Progea's experience and feedback from thousands of design engineers all over the world. Movicon.NExT™ far exceeds any other product for ease of use and intuitiveness,

thanks to its intelligent editors and auto-configuration tools, wizards, and tag importers. Movicon.NExT™ is a pleasure to use for engineering automation projects and provides exceptional visual impact in almost no time while making sure your investments are safeguarded.

The screenshot displays the Movicon.NExT workspace with the following components labeled:

- Ribbon Interface**: Located at the top of the workspace.
- Project Explorer for easy access to all project resources**: Located on the left side of the workspace.
- Language Editor VB.Net integrated**: Located on the left side, below the Project Explorer.
- Trace Explorer**: Located at the bottom left of the workspace.
- Command Explorer**: Located at the bottom center-left of the workspace.
- XML Explorer**: Located at the bottom center-right of the workspace.
- Animation Explorer**: Located at the bottom right of the workspace.
- Workspace: WPF vector Graphics Editor and Resource configurations**: Points to the central design area.
- Applicable graphical object styles and effects**: Points to the top toolbar area.
- Properties Window for simple and intuitive configuring of selected objects and resources**: Points to the right-hand side panel.
- Toolbox containing Preconfigured Objects, Analysis and User Controls**: Points to the bottom right panel.
- Symbol Graphics Library completely redesigned for WPF and Silverlight**: Points to the bottom right panel.



## ■ WPF and XAML graphics and new graphics library for unprecedented results

### ■ Movicon.NExT™ utilizes the WPF graphics engine and DirectX graphics acceleration to offer the latest generation symbol library empowered to provide astounding graphics quality

Today, design is an essential component of a product's success, even more so for software applications built for user interface supervision. Applications still based on Graphics device interface (GDI) technology use solutions designed in the 90's, incapable of natively exploiting all the wonderful features offered by the latest generation of modern hardware graphics. This is certainly not the case with Movicon.NExT™, which now uses the new WPF technology, the graphics engine for tomorrow's applications, designed to change the way of thinking and representing Windows user interfaces and completely capable of exploiting modern hardware. The Movicon.NExT™ vector graphics are based on XAML that exceed previous limits by supporting 2D and 3D graphics with revolutionary dynamic functions, surpassing current product limitations and allowing users to let their artistic creativity run loose.

All the symbol libraries have been created using XAML techniques. This offers a rich selection of quality objects and symbols to facilitate design engineering in creating high-impact HMI interfaces in less time than ever before. It is not necessary to have XAML know-how to use Movicon.NExT™, however the openness provides the opportunity for users to create symbols, 2D and 3D designs externally and implement them within the platform by using the powerful features from the XAML graphics and the Movicon.NExT™ realtime engine.





## ■ Supports the latest generation of 3D graphics



### ■ Exceptional 2D and 3D Graphics

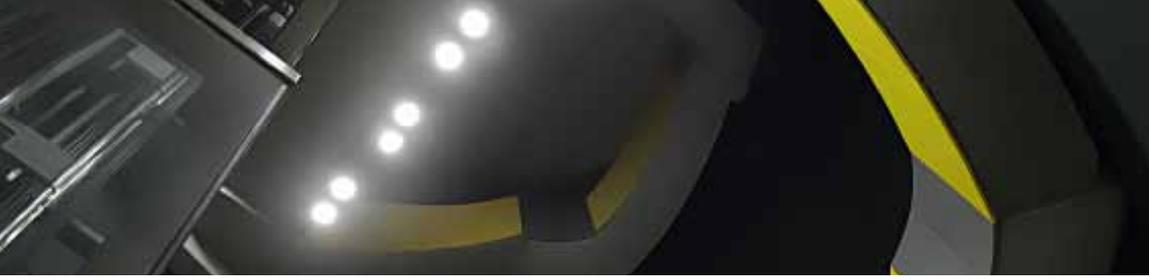
With the XAML technology, Movicon.NExT™ offers support to dynamic 3D graphics visualizations. Screens can display 3D models imported or selected from those included in the platform. The design engineer now can use various advanced functions for animating graphics with 3D model components and define positioning along trajectories for viewing a sequence of rooms containing different 3D scenarios. The user can interact with dynamic real-time system data using 3D graphical components to create tri-dimensional and interactive user interfaces.

The new graphical interface experience also empowers you with the freedom to design mixed 2D and 3D solutions, using predisposed dynamic functions for associating real-time information to objects and to integrate and expand libraries with your own XAML designs.

You can create spectacular 2D and 3D graphics with astounding special effects no matter the local screen or web screen size.

- 2D and 3D vector graphics with DirectX10 support
- Rich library of symbols and WPF objects preconfigured with top quality graphics
- Expanded support to graphical objects in XAML
- Extensive set of dynamic functions
- Support to all functions needed for manipulating objects in Runtime (zoom, drag, pinch, and more)
- Support to screen styles and layouts
- Full support to all multitouch functions
- Kinect (voice and gestures) support
- Native Windows 8 tile interface and automatic project navigation support





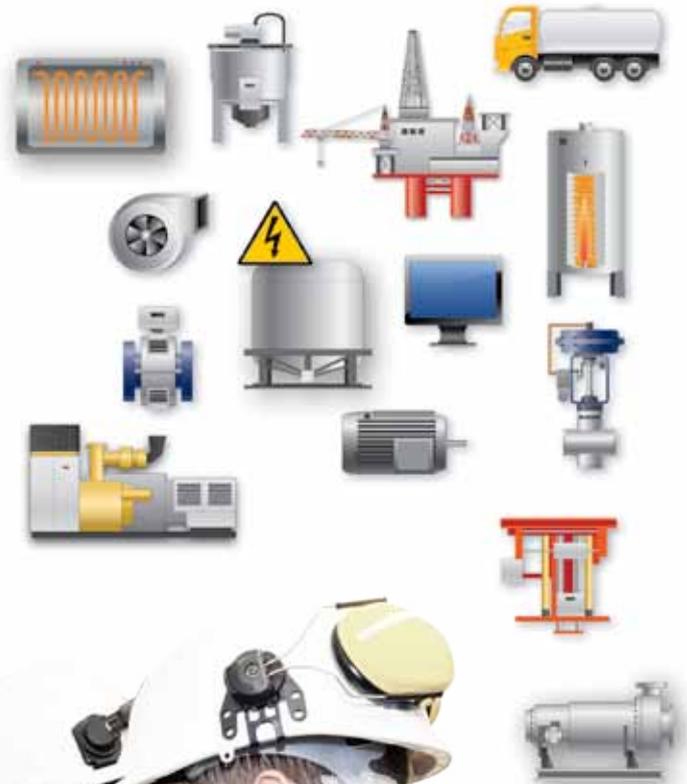
## Give space to your creativity

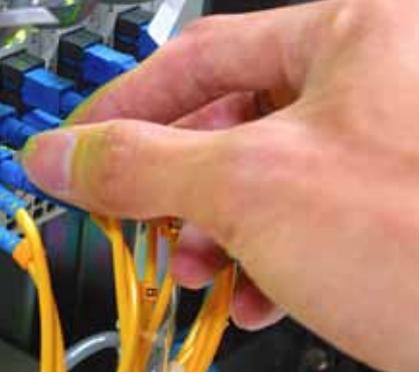
### New generation graphics libraries

Progea has invested significant resources to engage graphics and designers on a complete redesign of their product's XAML-based symbol library and to exploit the most modern graphics solutions using different styles and storyboards. Users can now deploy a rich variety of high quality graphics never seen before in SCADA/HMI, all included in the platform and contained in the object and symbol libraries for every industrial use.

Users can expand on their design creativity with a library rich in high quality static and dynamic symbols plus a toolbox of graphical objects, including pre-configured complex objects. United with a powerful integrated vector WPF graphics editor intended for extending technical capabilities in transparency, fading, shading and shadow effects, these increase the creative power of the designer.

In addition to the Movicon.NExT™ graphical object libraries, this platform provides users with ample freedom for graphical expression with XAML. This allows new symbols and objects to be created using Expression Blend graphics, dynamic use of storyboards, and full support to User Control customized with Visual Studio.





## Robust, safe and efficient data server

### The MoviconNExT™ server uses the OPC UA data communication model, guaranteeing efficient, standard and secure communications

Movicon.NExT™ has been designed using extremely robust and reliable client-server architecture criteria. The I/O data server engine manages real-time information by using the communication type defined in the address space, the gathering point of all the variables connected to the various field devices.

Movicon.NExT™ supports all data types, including those defined in the OPC UA – PLC Open IEC1131 specifications, to allow users to freely define and customize their own data types, even the most complex ones, thus removing and going beyond the boundaries of current technologies.

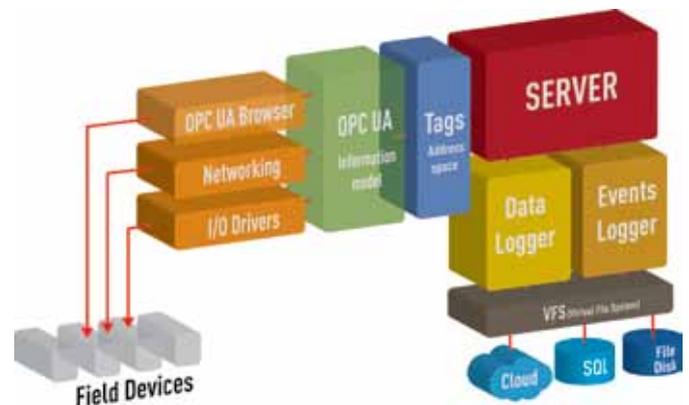
The Movicon.NExT™ server uses the data communication model specified by OPC UA, to ensure that communication is efficient, open and secure. I/O driver management is also based on this model and uses the specific protocol managements for field devices such as Siemens, Rockwell, Omron, Modbus, Profibus, ProfiNet, Konnex, EtherCAT, PowerLink, and others. The model provides maximum interoperability with OPC UA specifications, whether client or server, and supports all complex data specifications.

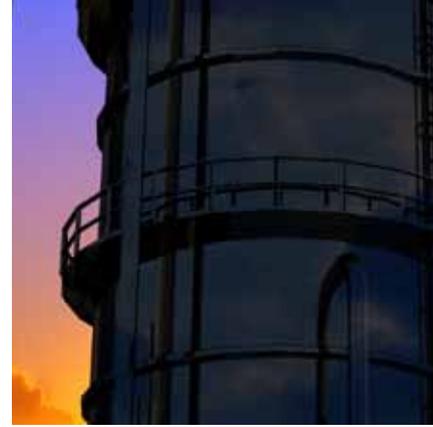
It also ensures excellent performance and server independence from the various types of connected clients, whether for local HMI or through Web visualization. Using these new technologies, Movicon.NExT™ supports very efficient data models and drastically reduces design engineering times by applying all engineering information to tags that are then propagated to connected objects.



This property consents to centralization, making the tags a true global information center.

- Simplified connectivity
- Full support to OPC UA client and server specifications
- Native and direct I/O drivers included in system
- Tag propagation property configuration
- Intelligent networking in OCP UA model





## Alarm Server: Evolutionary diagnostics functions

### Alarm and Event Management

The Movicon.NEX™ server has a powerful and complete alarm manager to ensure that events are handled with maximum precision. Users receive a vast variety and richness of information for constant and complete awareness of all ongoing plant system activities and situations. These alerts provide an opportunity for faster reaction, keeping production downtimes to a minimum and improving productivity and efficiency.

Movicon.NEX™ introduces new alarm functionalities and typologies, extending the conventional activation on an event method. Alarm activation can now be triggered on value deviation or rapid data change events to promote a more sophisticated way of managing systems with simplicity.

The alarm manager is configured for default according to the ISA S-18 standard but is completely customizable with support to the ON, OFF, ACK, RESET and SHELVE events. All areas, analysis and filter functions (by time, area, severity, period, etc.) are supported and dynamically combinable with help. The Alarm Window and the Historical Log Window are

active alarm visualization tools and can be inserted as objects in any screen and configured just like other graphical objects from the toolbox. Alarm display objects can be built from symbols and templates that differ completely in style and can be added to the symbol library like other graphical objects. Movicon offers complete configuration of alarm visualizations and their operations, using either direct or customized commands.

The display windows can be connected in network where the display object becomes a "client" for displaying active alarms and historical logs from different network servers. Columns reporting alarm information can be configured to adapt to every visualization need.

Among other interesting features, Movicon also provides users with the ability to instantly view histories of specific alarms and their occurrences. This is a great aid to simplify event analysis to improve productivity. There are all types of "sort-bys" and "filters" to help users obtain and display information transparently and intuitively.





# Alarm Dispatcher, Statistical Downtime Analysis

## Alarms Dispatcher

Unmanned or partially manned plant systems ensure information is supplied quickly to on-call duty staff to avoid unnecessary prolonged production downtimes. This is one of the reasons all the project alarms can be configured to immediately notify predefined users. The Alarm Dispatcher is the Movicon.NExT™ component for directly notifying personnel alarm events using SMS or e-mail, and is indicated for systems that must stay continuously connected (i.e. local network or Web). Notifications are sent to specified users or user groups. Notifications can be customized to be set at specific times, calendar dates, work shifts or on-call duty work shifts.



## Statistical Downtime Analysis

Plant production and maintenance managers need reliable tools that are capable of statistically analyzing plant downtimes during periods of production runs. The data analysis permits quick detection of critical points within the production process to allow improvements to be implemented to maximize system efficiency and productivity. Without this information it will be difficult to improve productivity.

Movicon.NExT™ integrates this powerful tool for managing analysis on events and production downtimes in reports relating to total and partial downtime plant system occurrences. Information can be represented in table format, pie charts or histograms, to individualize a list of alarm events and their classifications by "duration" (total time of all events of the same type) or by "frequency" (total number of occurrences of the same type) for the preselected time range and period. These reports can be displayed or printed on command or on event and can be exported in various formats (Excel, PDF, HTML,). They provide all information and details on each individual alarm analyzed.





## Historian database in local DB or cloud

### Innovative data collecting and recording with guaranteed performance and security

It is essential that every modern production system ensure correct and efficient data recording to enable efficient analysis of crucial information to improve productivity. Movicon.NExT™ uses innovative criteria to record historical data, to archive plant system data on a database, hard disk, or to offsite cloud storage, and guarantee everlasting performance and security independent from the volume of data involved.

Using Progea Virtual File System (VFS) technology, the persistent data model integrated in Movicon.NExT™ provides project independence from servers and database formats so that users can define where to archive data independently from their project. Data can be archived locally on file, in a relational database (MS SQL Server used for default), or in the cloud, using cloud computer technologies. Movicon.NExT™ can record associated variables using one or more Historian prototypes from the data server resource, allowing the user's project to adapt to client requirements instantly with ease.

The properties of each individual Historian prototype can be defined and configured with specific recording criteria (on event, change or cyclic), the value type to be sampled, (absolute, percentages, etc.) and data destination. Each individual tag defined in the address space can then be associated with a Historian model to create its own simple and flexible archive configuration. The Movicon.NExT™ recording engine uses advanced compressed algorithms that increase performance and sustain the recording flow of huge data volumes.

### Integrated Recipe Manager

Movicon.NExT™ has an extremely advanced Recipe editor, which allows archive management configuration in asynchronous mode in respect to the address space.

The configurator allows Recipe objects to be managed with data layouts, freely configurable user interfaces and connectivity to independent devices, as well as specific functions for downloading and uploading recipe data in "atomic" mode, thanks to the specific functionalities predisposed within the I/O drivers.

### Powerful Analysis Tools

A major part of the ToolBox objects allow database connectivity for representing and manipulating linked data tables, independent of the fact that they have been recorded by the Movicon.NExT™ Historian engine: ComboBox, lists, grids and many other controls permit any interface type to be created for visualizing and manipulating data in database tables.





# Rich Data Analysis with tools: Trends, Data Analysis, Report Tables

## Trends and Data Analysis

Sophisticated Trend objects allow access to data and display curves representing process data behaviors. The Trends can be both dynamic or historical(run-pause) and provide sophisticated features for representing values graphically, with ample pen and legend customization. They allow data to be represented by time/date range and the use of other filters such as zooming, pen selecting, logarithmic scales, fit-into-one-page graphics, printing, etc. The Trends also can be configured in Runtime and the VBA feature provides maximum configurability to allow users to create their own powerful Trend Template objects.

The Data Analysis objects have been extended to provide more sophisticated modes to perform effective and exclusive analysis on historical data with relating graphical representations. The Data Analysis objects allow users to apply fast analysis according to prefixed time/date ranges using comparison and overlapping curves. This includes, for example, analysis with sampling curves or comparing different periods (e.g. comparing values from one year to those from a previous year), where measures are taken by tracing lines between different chart points to obtain the difference in values.

## Report Designer

Movicon.NEX™ offers unbeatable report management potentiality. The built-in powerful Report Generator, based on .NET technology, allows users to create powerful visual reports using statistical and graphical functions. These simplify generating reports within the same project by offering a range of formulas, calculation tools, 2D and 3D graphics, and much more to enable better access and presentation of efficient data models and recordsets filtered from database archives recorded by the server.





## Powerful integrated functionalities make design engineering a new experience

### Multilanguage texts with simultaneous translation

Each Movicon project can contain an unlimited number of text strings in all languages to localize the project with any language or character set (Unicode also with UTF-16 code for Asian and Arabic characters). Texts are managed in the project's string table which is fully compatible with the copy and paste function directly from editors such as MS Excel™

Movicon projects are truly international. Powerful built-in text management tools are specially designed to manage text faster, such as the automatic text translation to languages used in project.

Any language can be changed and activated instantly, whether in Editor or Runtime mode. Specific languages can be activated for specific users when logging on and system fonts will adapt accordingly to the changed language making Movicon truly international.

### Built-in geo-localization

Movicon.NExT™ projects can be geo-localized. Integration with cartography and geographical maps allow the user to define geographic co-ordinates for specific screens or projects to dynamically display desired access points and information on maps.

Using the navigation and zoom techniques within this geographical map system will simplify distributed information management in different territorial locations. Maps can be used to represent the operational status of localized projects to obtain a rapid geographic collocation of information and navigability.

### Schedulers

The Scheduler server is equipped with functions and commands purposely designed to render object configuration extremely simple and functional for those objects designated to perform specific functions at particular scheduled times. Schedules can also be in Runtime mode using the appropriate graphical object.





## Unparalleled security levels with the Membership Manager

### User and Password Management

The Movicon.NExT™ applications ensure the maximum level of security and reliability. The complete and robust users and password management, has been designed explicitly to guarantee that conformity to the stringent security norms is an integral part of project designing and is achievable with simplicity.

Movicon.NExT™ guarantees maximum data and system access protection managed with 1024 user levels and 16 access areas. Project users can be shared with Windows™ Domain users with the option to centralize user profiles. All the necessary security criteria are fully integrated and configurable with a few clicks, and include features such as electronic signatures, unauthorized access attempt control checks, password expiry, automatic log-off and audit trail management. In addition, Movicon™ offers the ability to define protection levels and user traceability directly in each tag, independent from the associated commands.



#### User Management

Movicon.NExT™ allows user profiles to be defined with mixed configurations among other project users, Runtime administrator users, Windows™ domain users and connected child project users. Users can also be associated with access privileges to actions and command functions and individually to project tags.

The innovative Movicon.NExT™ user management is much more expandable and open. Users can now be shared with different security management architectures using the Membership feature.

#### Audit Trails

Audit trails can be applied to each data value and variation for recording and reporting each change with consequent values, time stamp and user responsible.

#### FDA CFR21 Part 11 and GAMP5

All the CFR21 Part 11 requirements have been implemented for creating FDA and GAMP5 ready projects with simplicity.

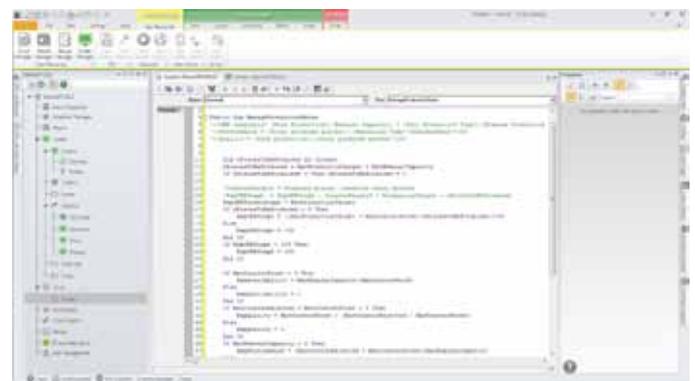




# Integrated VB.NET language power

## Unrestricted project design openness with integrated VB.NET language

Movicon.NEXt™ integrates a powerful VB.NET engine, capable of executing code compatible with the VB.NET standard (Visual Basic for .NET™), with a vast and powerful set of APIs. Not only are event and method properties provided to customize any type of system functionality, but they can be used to gain full access to your system's .NET world. Scripts can be executed as normal routines or embedded in objects in response to events, such as the alarm, template or data logger graphical objects. The Movicon VB.NET language guarantees multithreading, which means that different VBA script can be executed simultaneously, offering unmatched solutions that no other system using standard languages can offer. The powerful debugger also provides step-by-step, breakpoint and other execution types.



## The expression generator

Movicon.NEXt™ also offers a "VBA Expression Generator" for editing expressions directly within objects as an alternative to using tags.





## New horizons in automation systems

### Movicon's modern technological strong points and innovation

- **Scalability.** Movicon.NExT™ has been designed to guarantee maximum scalability using one unique development environment to generate and distribute projects for PCs and server stations, PC embedded and touch panels, mobile and smartphone devices and tablets. The Runtime version for Windows CE is being prepared.
- **Openness.** The Movicon.NExT™ technology is based on the "plug-in" concept, allowing maximum interoperability with systems to integrate new functional models within the Progea framework and to completely customize your .NET solutions. The graphical environment is based on XAML and also supports the creation of objects using external powerful tools such as Expression Blend. The powerful and integrated VB.NET language standard guarantees all kinds of customization.
- **Security.** Movicon.NExT™ guarantees the maximum level of security possible. In addition to the user management, the solutions provided ensure approaches to other security models offered by preferred providers.
- **Standards.** Movicon.NExT™ is based completely on the most popular technology standards offering openness and reliability. The XAML and WPF technologies guarantee the most effective and modern graphics standards, and historian technologies based on MS SQL Server and Azure transparently supporting all other relational databases. The project files are based on the XML standard. The powerful language is based on the VB.NET syntax standard.
- **Performances.** Movicon.NExT™ emphasizes performance management. Fast communications, real-time data management and graphics enhancements, exploitation of graphics accelerators and DirectX guarantee maximum technology without jeopardizing performance.
- **Connectivity.** The Movicon.NExT™ platform's Information Model is based on the innovative OPC UA technology. This guarantees maximum native connectivity towards any device or applied module based on this technology, offering unbeatable features for security and performance. Movicon.NExT™ also has a large number of native O/I drivers, integrated and free, which offer direct connectivity for devices with proprietary protocols such as Siemens S7, Rockwell, Modbus, Omron, and others.
- **Networking.** Building network architecture is extremely easy with Movicon.NExT™ due to its client-server structure and network data sharing and exchange model.
- **Web-enabled.** Movicon.NExT™ is a platform based on the system access via web concept for which it already is an unparalleled reference point. Web-enabled projects can be created with extreme ease and effectiveness exploiting the Silverlight technology to obtain solutions with maximum performance and graphics and the HTML5 technology to guarantee maximum portability to diverse platforms and systems.
- **Engineering.** Movicon.NExT™ offers an extremely innovative and pleasurable work environment with a rich and intuitive set of diverse functionalities. Using the new technologies upon which Movicon.NExT™ is completely based, your projects can be realized quickly and efficiently by exploiting the various wizards and templates, symbol libraries and toolbox unprecedented in terms of graphics quality and reusability.



# The new Web Client generation excels with new remote access concepts



Microsoft Silverlight is a free plug-in that can be used in platforms (PC and Mac) and browsers to provide content and multimedia services based on Microsoft .NET and Rich Interactive Application (RIA) applications for the Web. With the Silverlight technology, the Movicon.NEX™ Web Client is capable of managing application remote instances, allowing the client side to obtain the same graphical functionality and performance of extremely advanced servers.

The Web Client does not require any additional installations to use Silverlight and the server is automatically configured to make projects accessible via the web with just one mouse click.

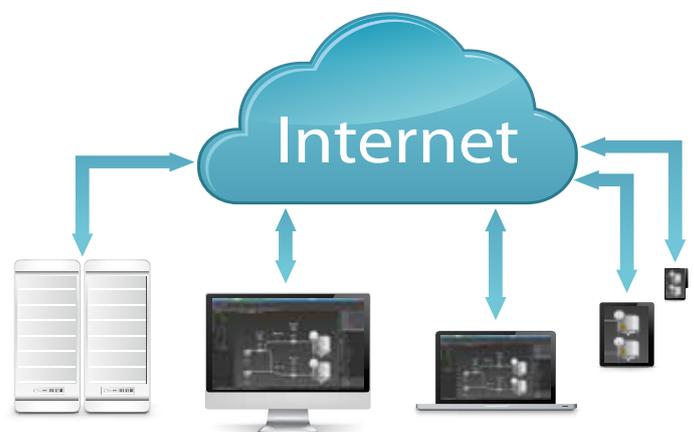
Although the Silverlight plug-in is required on the client side, it has the e-graphics and high performing technology crucial for obtaining successful Web Client solutions that are not completely cross-platform. With the XAML technology on which the Movicon.NEX™ is based, the availability of graphical real-time system data representations are at your complete disposal for using in architectures based on web and mobile devices such as smartphones and tablets.



HTML5 is the standard that defines a series of technologies, substantially covering all the most recent technology innovations concerning web development and engineering web applications. These new HTML5 technologies surpass existing limits and allow definition of new semantic functions, storage, API for device access, web sockets, webworkers and graphical solutions, multimedia and 2D/3D designs never dreamt of before in standard and cross-platform technologies.

Supporting this standard enables the Movicon Web Client technology to offer users true standard and cross-platform web architecture, portable on any PC, operating system, browser and mobile device.

The advantage of having a cross-platform solution is that it permits accessibility to projects anywhere and everywhere, with fundamental security and graphic rendering requirements guaranteed. In respect to solutions based on Silverlight, HTML5 requires that part of the client data be processed on the server side and in doing so may affect performance slightly. Despite this, HTML5 is an open standard that will allow you full interoperability in any platform.





# Cutting edge remote access using the Internet

## Forever Protected Architecture

Using the web services technology, client access to your system does not require any modification or opening of firewalls, guaranteeing total security when data are accessed. Data between the server and Web Client are notified with algorithmic encryption to ensure security in public networks as well. From the command access security view point, Web Client stations permit command execution as defined on servers using the same security adopted. For example, if a command requires password authentication on the server side, execution of this command through the Web will also require the same authentication (log on). All access and commands are traced and recorded on the server's log. In addition, logging on to a Web Client station is completely independent from other stations, where other users can log on with different privilege levels using the multi-user concept. The server system also can be configured for viewing only by disabling any possibility for clients to execute commands.

In addition, the project's graphical objects can be configured to be made visible or invisible on the Web Client side.

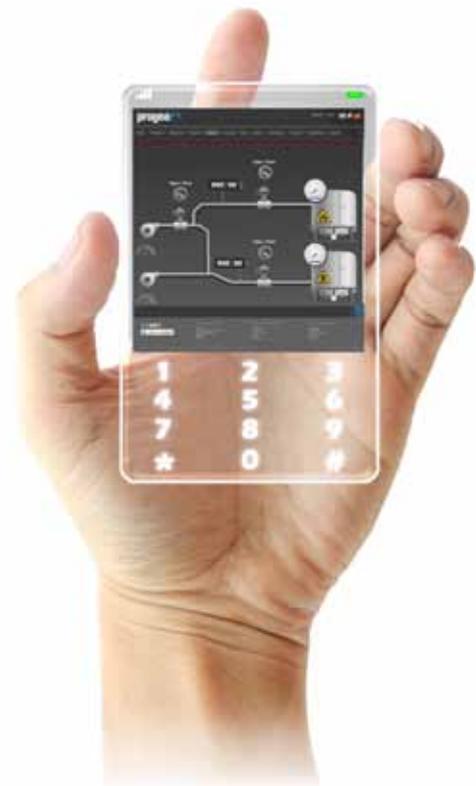
Web Client characteristics

Movicon.NExT™ Web Client offers the possibility to access system data using the internet or intranet architecture.

- No need for additional installations or configuring on client or server
- Elevated performance and transparent support to project functionalities and commands using normal browsers
- Data management security
- Notification on exception only
- Communication based on Web services
- Multiplatform support, no software to be distributed or installed, application centralized on server side

**There are several advantages of using the Movicon™ Web Client:**

- Access and visualize project via the Web using any browser with any operating system with Silverlight and HTML5 technology support
- Creation of web pages on the server is completely automatic with just one mouse click
- Project screen browser navigation defined on Server with user login, access control and option to restrict navigation on the web side



# Progea: Over 20 Years of innovation



## Value-added services

The Total Cost of Ownership Costs (TCO) of a software platform is greatly influenced by the quality of its correlated services. Every user company is well aware that even the best products can induce indirect expenditure for the end user if not properly supported. Important parameters such as Learning Time, Response Time, Quality Services, even though not directly linked to product such as customer care, are generally considered the true Added Value of a software product. The relationship between Product Company and Consumer in the software sector is 'different', it is considered a 'partnership'. Movicon™ is designed on the simplicity-of-use criterion, correlated with complete documentation and website dedicated to support services and provided to enrich the knowledge of the developer community with useful information and examples to minimize their need to revert to the Technical Help services. Furthermore, Progea is unique in providing quality services that only a product company can ensure and provide. Training, Technical Help and Customer Care guarantee the user the support they need to confront and resolve any application need whether planned or unexpected, contributing to reducing installation and internal development costs.

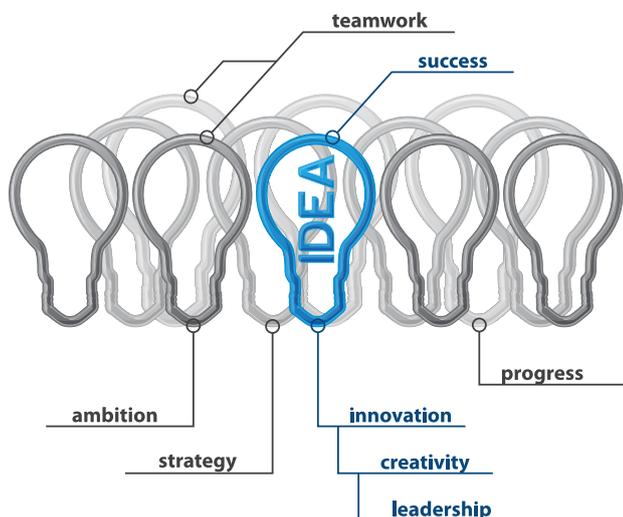
Progea is directly presented through and by its offices in Italy, Germany and the USA, in addition to an international network which supports and guarantees the Movicon™ brand name worldwide.

## Community

Progea promotes and greatly encourages active knowledge sharing. Users can take full advantage of the user community to exchange know-how, tips and advice and use the web tools administered by Progea to access all technical information about platform technology life cycles. Progea organizes events for the Community along with information programs and free training courses. The website provides Forums, Blogs, bugbase, KnowledgeBase, Examples and much more to the full discretion of users to access and manipulate.

## A solid partnership

Movicon™ is a well-known product used in automation by leading companies from every industrial sector and has more than 80.000 licenses installed worldwide. As a demonstration of the Movicon™ product's quality and reliability, Progea is honored to be chosen by the leading players in the industrial automation sector. The Progea technology is also used and distributed under a variety of brand names by international companies, including Phoenix Contact, Panasonic, ABB, ASEM, VIPA, Suetron and many more.

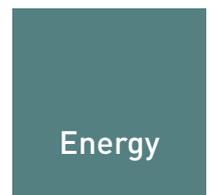
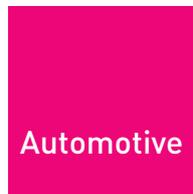




## ■ SCADA/HMI solutions for every automation sector:

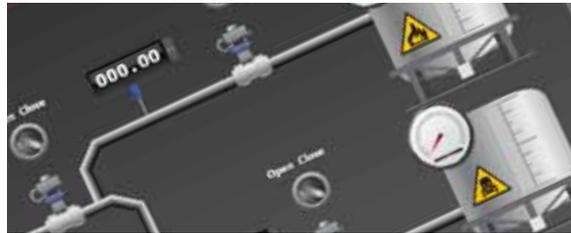
Progea offers open and flexible crossover solutions for various civil and industrial automation sectors. Our software platforms are installed all over the world to manage and control all types of automation sectors, including the following:

- Automotive
  - Food & Beverage
  - Manufacturing
  - Pharmaceutical
  - Oil & Gas
- Building Automation
  - HVAC
  - Infrastructures
  - Energy Production and Distribution
  - Water and Wastewater Depuration





May 2013  
English Edition



Over 20 years of software  
technology innovation

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