Movicon.next™

**Software technology
SCADA / HMI / MES**

Innovative, powerful, scalable and easy to use,
for every automation need

Movicon.ne**x**t ™

Movicon.NExT™ 4.0 is the new industrial automation platform that offers the most innovative and flexible software technology for Windows/Linux **HMI** projects, **SCADA** supervisory systems, **MES** and efficiency analysis solutions essential to **Industry 4.0**.

Innovation for any SCADA/MES/HMI supervisory project

Progea offers Movicon.NExT™, the state-of-the-art technology for Smart Factories and the best software solution for every company automation need.

Evolution is necessary to maintain a competitive edge in the world of automation: this does not only mean introducing new features or improving specific technologies, it often means finding the strength to face new challenges, rethinking and scrutinizing the results of one's work and seek out new horizons. This is the only way to envisage what was unimaginable before. Movicon.NExT™ is a new software, a completely redesigned and future-proof technological expression of Progea's thirty years of experience in the sector, defining a new benchmark. Progea conceived Platform.NExT™, the platform on which Movicon.NExT™ is based, to overcome the limits of conventional SCADA/MES/HMI technology by offering new generation software solutions. The intercommunication of Smart Factory devices is the necessary requirement for the Industry 4.0 and IoT digital revolution.

The software technology of Platform.NExT™ enables manufacturing and design engineers to significantly increase the efficiency, quality and flexibility of their projects. Movicon.NExT™ offers an intuitive configuration environment allowing quick and easy design of any project, no matter how complex, integrating the platform's native functional modules as well as those of third parties. Configuration, communication, visualization, data recording, analysis, security and control, information distribution at all enterprise-wide levels, locally or geographically distributed, are all features readily available in the platform that offers unique advantages of total integration and "plug-in" modularity.

The universal software solution: from SCADA/MES projects to small Linux-based HMI

Scalability

Movicon.NExT™ has been designed to guarantee maximum scalability, allowing users to operate in one all inclusive, flexible and easy to use development environment for modular solutions. The scalable architecture can be used to design any project, from small HMIs to Control Rooms, aallowing a remarkable save in costs and time with the added benefit of unlimited deployment possibilities.

Openness

The Automation Platform.NExT™ technology is based on "plug-in" concepts, allowing maximum interoperability with the system, to the extent that new functional modules can be integrated with the Progea Framework to fully customize your .NET solutions. In addition, the powerful integrated standard VB.NET syntax language enables any type of customization.

Standard

Movicon.NExT™ is a complete software technology based on openness and reliability industry standards. The XAML and WPF technologies provide the most effective and advanced graphics standard. The Historian technology is based on Ms SQL Server and Azure, seamlessly supporting any other Relational DB. The project files are based on the XML standard. The communication layer provides a vast number of native communication drivers, with OPC UA-based data model.

Performances

Movicon.NExT™ strength is also centred on performance management. The speed at which communications and real-time data are processed, along with enhanced graphics boosted by DirectX accelerators to ensure that performances are not compromised by emergent cutting-edge technology.

Connectivity

The Movicon.NExT™ platform is based on the innovative OPC UA information model, to ensure maximum native connectivity to any device or application module based on this technology. It also provides unmatched features for security and performance.

Data Analysis

Movicon.NExT™ allows historical recording of all data managed by the Server, using local or cloud databases in the most transparent, open and independent way. In addition, specifically designed extension modules can be used to manage Plant Intelligence to improve productivity or energy efficiency.

Security

Movicon.NExT ™ guarantees the highest possible level of security. In addition to a powerful Users and Passwords management, the solution ensures integration with the security models offered by the desired provider (e.g. biometric systems), in compliance with IEC 62443-3-3.

Engineering

Movicon.NExT™ provides an innovative and enjoyable development environment with a rich set of intuitive features. Projects can be created in much less time than before by using wizards, templates, symbol libraries and toolboxes based on XML and XAML. The platform's open environment allows users to integrate "plug-in" functional modules created externally (Visual Studio e C#).

An integrated, modern and intuitive configuration environment

Menus and Toolbars

Workspace:
WPF vector graphics editor and configuration of the platform's resources and functional models

Graphic effects and styles applicable to objects

Toolbox with preconfigured objects, Analysis and User Controls

Properties Window.
Simple and intuitive configuring of objects or selected resources for the various platform modules
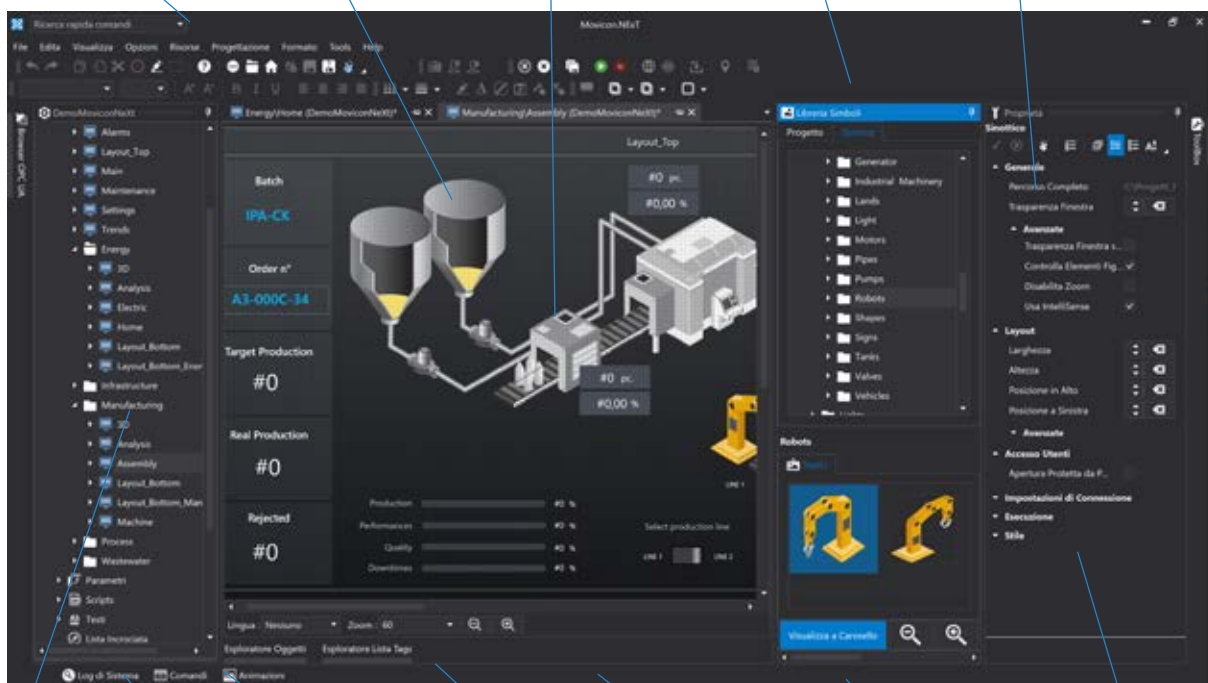
Project Explorer. Easy access to all available platform modules

System Log Explorer

Command Explorer

Animation Explorer

XML Explorer

Integrated VB.NET Language Editor

XAML (WPF) based Symbol Graphics Library

Software technology for every I4.0 automation solution

## What makes the Movicon.NExT™ software technology revolutionary?

Movicon.NExT™ uses the best innovative technologies, meeting the essential market demands for communication and interoperability across the IoT and Industry 4.0 domains.

- **Plug-In Framework**
  The new Movicon.NExT™ technology is based on the .NET technology that leverages the potential with a 64-bit systems, with a Framework specifically designed to guarantee reliability, openness and performance. The platform uses the "plug-in" model to offer possibilities of complete modular system customization and the integration of new custom modules.

- **WPF/XAML Vector Graphics**
  Movicon.NExT™ offers a new user interface concept, With the latest generation DirectX graphics acceleration systems to boost the exceptional quality of the WPF/XAML vector graphics technology in 2D and 3D.

- **HTML5 and Movile APPs**
  The Movicon.NExT™ Web Server module offers new generation Web Client solutions, using HTML5 technology to allow remote access to field applications, guaranteeing performance and access to cross-platform deployments. The smartphone and tablet apps make web access easier from mobile devices.

- **OPC UA and I/O communication driver connectivity**
  The I/O Data Server module is based on a Server architecture which uses the information model defined by the OPC UA standard and leverages the WCF technology in communication infrastructures. The platform provides several integrated and native I/O communication drivers based on this model, capable of handling communication protocols for any commonly used automation device (PLC, Networks, Fieldbus, instrumentation and others).

- **High performing Database and Cloud**
  The Historian module uses the Virtual File System (VFS) to make applications independent from the data persistency model. Users can therefore feel free to connect to relational databases (such as SQL Server), use Cloud computing solutions (such as Azure), or use normal XML files on physical disk to log and archive process and project data.

- **Users and Memberships**
  The security model is based on Membership authentication, guaranteeing maximum security and openness to the integration of authentication systems from different Providers.

A new generation software platform, modular and scalable

Open and modular system architecture, based on the most modern and innovative software technologies.

The Movicon.NExT™ architecture uses the innovative Automation Platform.NExT technology, Progea's framework designed for future-proof automation: scalable, modular and open.
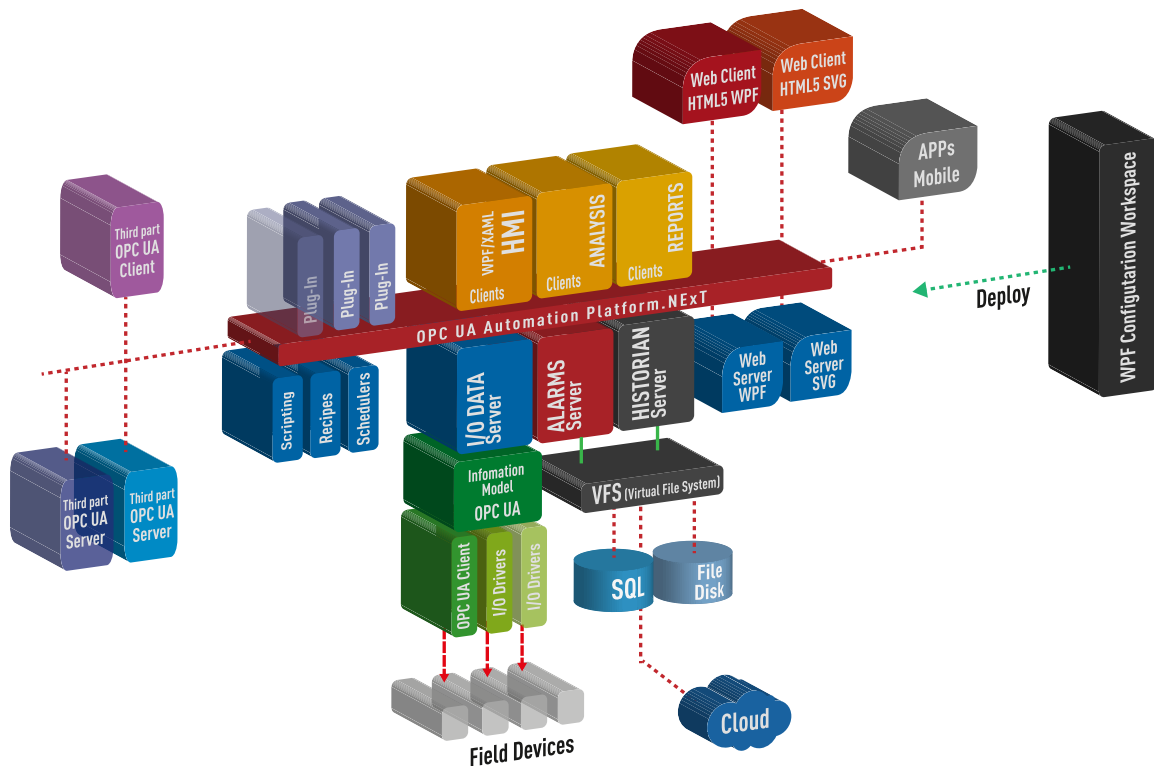
Graphics of the latest generation

Interaction between Man and Machine

By using Movicon.NExT™ you can create extremely powerful and versatile graphical interfaces. Animated screens are easy to create using symbols, objects, wizards, faceplates, power templates and native multitouch user interaction. The platform's graphics editor provides a library containing thousands of top quality XAML vector symbols and a toolbox rich in graphical objects of the latest generation. In addition to the vector graphics editor, you can also import your own drawings or use BMP, GIF, JPG, PNG or multimedia formats.

Thanks to the WPF/XAML technology, Movicon.NExT™ supports dynamic 3D graphics visualization, allowing 3D models import and animation by using the dynamic functions, views and events. TThis will empower the designer to achieve interactivity and real-time plant data dynamicity using 3D graphic components. The resulted spectacular two-dimensional or three-dimensional graphics rendering will unleash the designer's creativity to build interfaces as they envisaged, from minimalistic schematics to more realistic graphic representations, independent from screen resolution and local or web access.

- Powerful integrated graphics Editor
- 2D and 3D vector graphic with DirectX support
- Rich library of preconfigured XAML symbols and objects with top quality graphics
- Rich set of dynamic and animation functions for both 2D and 3D graphics
- Isometric Symbol Library
- Graphics Import from XAML and 3D
- Support to all object-based touch manipulation functions
- Centralized Symbol Repository
- Symbol Power Templates
- Support to Styles and screen layouts
- Full support to all multitouch functions
- Native support to Windows 10® Tile interface and automatic project navigation
- Widgets and swipe page navigation

More space for creativity

I/O Connectivity

I/O Data Server
The Movicon.NExT™ Data Server structured on a robust and extremely reliable architecture. The server manages real-time communications by handling information in the platform's framework Address Space, the gathering point of all field device connected variable tags.

OPC UA
The Movicon.NExT™ I/O Data Server is based on the OPC UA data Information Model (IEC62541 Standard) and supports any Data Type definition, including those in the OPC UA – PLC Open IEC 61131 specifications, besides allowing to freely define and customize your own Data Types, including complex ones, thus removing and overcoming the limits of conventionaltechnology. The OPC UA technology is integrated and native, for both Client and Server, and supports the DA, A&E, HA specifications.

Integrated Protocol
Movicon.NExT™ offers several communication protocols (I/O Drivers) to import data and connect directly to the most commonly used automation devices, which include Modbus, Siemens, Rockwell, Omron, Emerson, Mitsubishi and others, or for networks such as Profibus, ProfiNet, Konnex, BACNet, EtherCAT, PowerLink, IEC870, IEC850, MQTT.

Data Gateway
All variables on the Server can be imported and exported and they support multiple connectivity to different devices. The Gateway feature between different protocols, field devices, networks and Cloud can be enabled for each variable tag.

Industrial IoT
The Server integrates specific protocols for IIoT allowing direct connectivity towards data collection and analysis systems in the Cloud. Protocols such as MQTT, PubNub, Databoom are available to create IIoT data collection systems.

Security
The Data Server guarantees maximum data security and protection to allow communications based on fully configurable transports layers in the project, with the possibility to use secure HTTPS with security certificate management, in addition to TCP or NetPipe.

- Full integration of OPC UA data in the Platform. NExT™ Address Space
- Platform based on the OPC UA Information Model
- Native and direct I/O Drivers included in system
- Simplified Connectivity
- Data Structures and Prototypes
- Direct Tag import from devices
- OPC UA Client and Server, DA, AC and HA specifications
- Propagable Tag Property Configurations
- Intelligent Networking in OPC UA model
- Full transport and security configurability (Netpipe, TCP, HTTPS and other)
- Statistical Tag Information for total time ON, activation total and more.

Alarm Management

Alarm Server Manager

The Server's Alarm Management allows full custom configuration of project alarms and event messages, to achieve maximum granularity when managing events and providing accurate information to the operator. Alarms and Messages can be set to manage ON, OFF, ACK, RST and SHELVE events, according to the ISA S-18 norm and OPC UA A&E specifications. Alarm activation can be triggered with individual Tag bits, deviation values or elapsed time between data changes, allowing sophisticated alarm management with ease. Areas and Priorities management and configuration is available, with all related analysis, filtering and sorting functions (by time, area, priority, etc.), together with the possibility to combine dynamic help descriptions, operator comments and events.

Alarm History

The Alarm Manager also records and trace each individual alarm and message, as well as all system events, on database or in the Cloud using the Movicon. NExT™ Virtual File System (VFS) technology. In this way, the Alarm Manager can ensure that all events are recorded in the Historical Log archives, independently from the data format and archive location, whether local, remote or in the cloud..

Alarm and Historical Log Visualization

The Alarm Window and Historical Log Window are, respectively, the active and archived alarms visualization tools that can be inserted and configured in any screen, just like any other graphical object from the toolbox, allowing to build alarm display objects with symbols and templates that vary in style, and then add them to the Symbol Library.

Alarm Notification with Alarm Dispatcher

Control systems of unmanned plants, or those manned by a limited number of operators, must be able to immediately alert on-call duty staff with the information necessary to prevent prolonged production downtimes. This can be achieved by configuring the project's alarms to trigger immediate notifications. The Alarm Dispatcher feature allows event notifications via Synthetic Voice (VOIP) SMS, e-mail or Telegram push notifications.

Downtime Analysis Statistics

Movicon.NExT™ provides an indispensable tool for Plant Production and Maintenance Managers, who are increasingly in need of solutions for statistical analysis of downtimes during production runs. The Movicon.NExT™ Downtime Analysis module is extremely easy to use And allows quick identification and removal of critical and weak points in the production process, to improve and maximize the system's efficiency and productivity. Reports for total or partial downtimes, or the number of event occurrences in the plant, provide all aggregate and detailed information on each individually analysed alarm and can be displayed or printed, based on command or event triggers, and even exported in various formats (such as Excel, PDF or HTML). The reports can be freely customized and adapted to the different project's needs, for example allowing to cross-reference downtime analysis data with production data. The Downtime Analysis module is also accessible via web.

Historian and Data Loggers

Performance and Security guaranteed
The Movicon.NExT™ Data Recording Server uses innovative criteria for recording historical data, allowing plant data to be archived on data on DB, physical disk or in the Cloud, to ensure that performance and security are maintained, regardless of the data volume.

Data recording models
The Server offers two object-oriented data logging models: the Historian model and the Data Logger model, allowing designers to perfectly configure projects based on their own analysis needs.

Historian
With the Historian model, the server module will record data ("Time Series" data type) typically on event, allowing your project to easily adapt to customer needs without spending time on building the model manually.

Data Loggers
With the Data Logger model, the server module will record data, by time interval or on event, organizing them inDB table columns that are typically used for production traceability systems or report management. The designer can therefore freely configure projects with their choice of archiving database, using one or both methods depending on the desired analysis type and archive management system.

Support for SQL Server and any other DB
The configuration properties of each Historian prototype defined in the project can be set with a data from and recording trigger (event, change or cyclic, sampled value type (absolute, percentages, etc.) and target archive. Each single Tag defined in the Address Space can then be associated with a Historian model, to create your own simple and flexible archive configuration. The native and default data format is SQL Server, but you can opt to use the MySQL, Azure or SQLite format as well. In addition, you can also customize the connection string to any DB such as Oracle or others, as well as the Cloud. Maximum project openness and independence is always guaranteed in respect to whatever archive format you choose to use, thanks to Progea's VFS (Virtual File System) technology.

Historical Data Visualization and Analysis
Several ready-to-use objects are available in the Toolbox to display and analyse data from the database archives as needed.

Data Analysis, Charts and Reports

Trends, Charts and Data Analysis

Sophisticated Trend objects are available to access and display curves relating to process data trends. Trends provide advanced functions to represent values graphically, with ample room to customize as needed. Furthermore, Trend objects can represent data by specific time ranges or by other filter types. They also come with zoom, pen selection, logarithmic scales, fit-in-page, print features and much more. Trends are configurable at Runtime and the VB.NET scripting functions allow further expansion on their configurability. The Data Analysis objects are great for performing thorough and sophisticated analysis exclusively on historical data, whose results can be represented in chart graphics. They also allow quick analysis on predefined time ranges using overlapping curve comparisons. The Charts allow you to display curves or arcs of data value arrays in 2D and 3D. The Movicon.NExT™ Provides ready-to-use DB objects to directly display and manipulate data of connected databases through Data Grids, Combo Boxes and other DB connectors.

Powerful Integrated Report Manager

The Report Manager offers designers and users a powerful and flexible tool for generating, executing and distributing data reports and to successfully accomplish any type of analysis on collected information. The analysis is performed on data recorded by the platform, such as the archives managed by the Data Recording Server, using the Historian or Data Logger. As there are no limits to flexibility, analysis and reports can also be performed on any data source as well as by connecting existing relational DBs no matter what type. The Report Manager offers an object-oriented user interface where Reported can be created in a few simple steps by using

a wizard and templates. Once the data source has been selected, such as database tables for instance, it is very easy to build the report with data fields, tables, statistics and charts in 2D and 3D. All types of analysis tools are supported, including multilevel filters, sort by, group by, calculation functions or formulas, Master Report and Sub-Reports. The user can then view, print or export the reports in a number of different formats that include PDF, HTML, RTF and XPS or in the Excel XLSX and XLS formats.

Reports via HTML5 Web Client

Reports can be published over the Web, using the Web Server Module that fully supports the Report Manager module's functions. When deploying projects over the web using the Web Server module, the reports will be displayed on the web using the Movicon.NExT™ HTML5 technology.
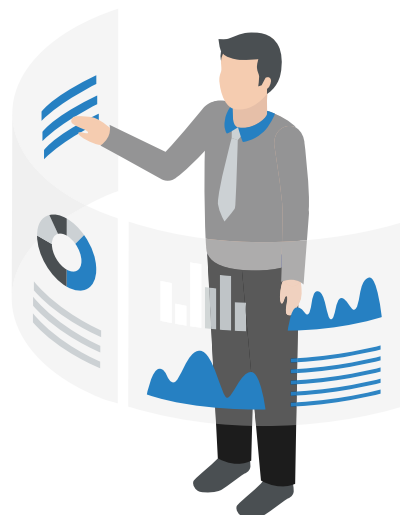
Powerful Integrated Features

GeoSCADA.NExT™

Movicon.NExT™ fully supports the integration of geographical maps and cartography systems for the geolocalization of dynamic objects to view on maps. The GeoScada feature allows you to define the geographical coordinates of specific screens or projects, dynamically displaying real-time information of any complexity on a map, with support to all commands that are usually available on normal screens. The GeoSCADA feature also supports advanced features such as: clustering (symbol's visualization complexity, based on zoom level), object interactivity, dynamic route and path tracking (tracking vehicle route with GPS), groupings and pop-up windows. Movicon.NExT™ simplifies the management of information distributed throughout territories using the navigation and zoom feature on map interfaces that can be integrated in normal SCADA supervisory projects. The geographical maps can be made available online or downloaded locally, according to project needs.

IP Camera Visualization

The Movicon.NExT™ screens provide the use of viewer objects to display live images or feeds from any IP camera supporting MPEG, H264 and H365 standard formats. These objects are easy to use and can be accessed via Web Client.

Schedulers

Movicon.NExT™ allows Activity and command execution planning using event schedulers. The Schedulers offer powerful configurability by using specific graphic objects to execute operations scheduled on calendar dates and times, or on a weekly time plan, with provision for holiday management and programmable exclusions. The Scheduler configuration is also available at Runtime.

Movicon.NExT™ Recipe Manager

Movicon.NExT™ offers a very advanced module to edit and execute Recipes, with configuration of asynchronous management of archives with respect to the Address Space. The configurator allows to manage Recipes objects composed of a data layout, a freely configurable user interface and independent connectivity to devices. Specific download and upload functions have also been provided for transferring recipe data "atomically", thanks to specific functionalities in the Data Server's I/O drivers.

Multi-Language Text and Converters

Each Movicon.NExT™ project can contain all text strings in a virtually unlimited number of languages, so that it can be localized in any language and character set (Unicode also with UFT-16 encoding for Asian Arabic characters). Texts are managed in the project's string table, which is fully copy-paste compatible directly from editors such as Ms Excel™. Any language can be selected and activated at any time, both in Editor and Runtime mode. Activation of a specific language can be automatically triggered upon Log On of a specific User and the system's Font will adapt accordingly. The Converters are customizable and can handle conversion tables for each international unit of measure. The Movicon.NExT™ projects are truly international.

Voice Commands

Movicon.NExT™ has a speech recognition function that provides an easy way of using voice commands to execute any action in the project, without using the keyboard or touchscreen. Each command object can receive a text string that will be decoded by the speech synthesis engine, to enable the user to invoke the commands vocally.

Security and Audit

Maximum system access security with User and Password Management

Movicon.NExT™ uses a sophisticated security system to prevent unauthorized access based on a user membership management. This technology not only allows the system to ensure maximum security but also maintain openness to other security providers. Therefore, offers the possibility to customize user authentication with other security providers such as Window Passport that integrates biometric recognition systems.

User and Password Management

Movicon.NExT™ guarantees maximum level of security and reliability, with a complete, robust and fully integrated Users and Passwords management specifically designed to make projects compliant with the most severe security norms. Movicon.NExT™ ensures maximum data and system access protection by managing security criteria with 9999 User levels, which can be divided into Groups and 32 access areas. All the security criteria are already integrated and configurable with a few mouse clicks and include Electronic Signature management, data tampering attempts control, password expiry, automatic log off and Audit Trail management. Movicon. NExT™ also offers the possibility to define protection levels and traceability directly in each Tag, independently from the commands associated.

Windows Active Directory

Movicon.NExT™ supports centralized user management and shares the Windows security and authentication system, including Active Directory.

Audit Trail

Each command operation and data change can be submitted to the Auditing and traceability processes that record and report each change, with the resulting values, timestamp and the responsible user. Requests for dual signatures can be managed for specific Audits.

FDA CFR21 Part 11 and GAMP5

Movicon.NExT™ projects are CFR21 Part 11 ready for FDA and GAMP5 validation and include encryption and historical data validation.

IEC 62443-3-3

The Cyber Security requirements of complex systems can be fully implemented in automation architectures based on Movicon.NExT™ technology.
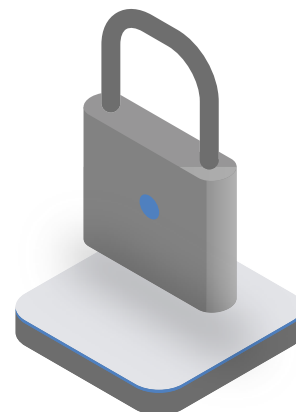
Scripting .NET and Logics

Project realization openness made possible with the integrated VB.NET language

Movicon.NExT™ integrates a powerful VB.NET engine, that can execute custom code and is totally compatible with the VB.NET standard (Visual Basic for .NET™), to offer a powerful wide-ranging set of APIs. Properties, events and methods can become then available not only for customizing any system functionality, but also to access your system's .NET world. Scripts can be run a normal routines or embedded in objects, such as graphic objects, alarm objects, templates, dataloggers and others, and triggered by events. The VB.NET language logic can be run on both Server and Client with support for multithreading to simultaneously execute different scripts and thus attain unparalleled solutions that other systems cannot offer. The powerful debugger also offers step-by-step and breakpoint executions, along with other handy diagnostic features.

Function Block Diagram Editor

Movicon.NExT™ integrates a graphical editor to design sequential logic using Function Blocks, allowing you to create logics in our project without needing programming language know-how. The function block library, which contains all the main logic functions, including PID control blocks, is expandable and customizable. A possible application for this feature, in view of the upcoming availability of a Windows 10 IoT runtime, is on small microcontrollers with logic units connected to the main supervisor, to create Movicon. NExT™ ecosystems in an Industrial Internet of Things (IIoT) architecture.

The Platform.NExT™ technology, on which Movicon. NExT™ is based, has been specifically designed for modularity and scalability. In addition to the suite of functional modules offered by Progea, users can freely develop and add new modules to the platform, to create vertical and integrated solutions leveraging the platform's native functions, thus optimizing efforts, increasing performances and reducing development times and running costs. Progea offers wizard models for Ms Visual Studio with all you need to build your own functional modules, using the .NET and C# technologies. Furthermore, Progea provides documentation, SDKs and the training needed to create vertical solutions integrated with Platform.NExT™ technology.

Wizard and Automatic Design Engineering

The Movicon.NExT™ Builder is an integrated customizable tool allows you to configure project design methods, using functions that can automatically generate projects or project parts. In addition, Movicon. NExT™ provides several tools for faster design engineering, including import from the most common formats, models, templates and parameterization tools for the more experienced user.

Flexible Design for Modular and distributed Projects

The Platform.NExT™ technology allows design engineers to easily create modular, scalable or distributed architectures for their projects.

Centralized Network Projects

The SQL Server support allows projects to be created and centralized on a network. This will enable remotely run applications to share the project thus centralizing its management over the net.
The network architecture can manage one project repository for all distributed workstations.

Child Projects (Modules)

Movicon.NExT™ projects can be modular and distributed by using the child project technology. A Child project is an independent project connected to the Parent project, with which it shares resources. This feature makes it possible to turn complex monolithic projects into modular and distributed projects, both locally for modules of the same project, and for complex plants and production lines, where each Child project is still autonomous locally but is shared by a Parent project at a higher level.

Project Deployment

The Platform.NExT™ technology offers an important tool to manage project deployment, by which the project can be installed and managed on another machine remotely. The Deploy Server is used to launch projects on the target machine and manage the main commands remotely. This tool is very handy for design engineers deploying projects on embedded systems or HMI devices, including those based on Linux.

WebHMI Integration

The Movicon.NExT™ WebHMI integration offers unprecedented scalability. Design engineers can now use the same development environment to create any automation system project, from small HMI to Control Rooms for production management. Any Movicon project can be transferred to WebHMI systems, Which consist of the Movicon I/O Data and Web Server architectures that convert WPF graphics to SVG. Therefore, small HMI systems based on web architecture, which are typically used in embedded systems, can be created including those running on the Linux operating system and those that use the Cortex processor or Raspberry PI.

HTML5 Web Client Technology

Access your plant over the web using Movicon.NExT™

The true concept of modern automation is the ability to access data of your automation system whenever and from wherever you happen to be. Users, Maintenance personnel, Production Managers and Managers at all levels need to have secure remote web access to manage, display and view production processes. The Movicon.NExT™ excellent Web Client performs these operations using HTML5, the most modern and innovative technology available in the web domain.

Web Access
All Movicon.NExT™ project screens and features can be made available over the web using either any HTML browser, or the Progea apps which are available for free from iOS and Android app stores. Users can access, log on, interact and perform all operations using the specific features available to the design engineer to allow remote control over the web, using the special security features provided. All system access and commands are traced

and recorded on the Server's Log. In addition, the user's authentication (Log on) is completely independent for each Web Client station, so any user will be able to log on with different privileges (Multi-user). Purposely designed native tools, such as Dashboards, Grids, Data Analysis and Reports, allow direct access from the web to the project's historical logs on the server and to perform analysis, as well as those customized, over the web.

Movicon.NExT™ offers different web technologies, allowing designers to leverage the available functional characteristics based on their project's needs and requirements:

- Web Client HTML5 in WPF and instances on server
- Web Client HTML5 in SVG, without instances on server
- APPs for iOS, Android and Windows mobile systems
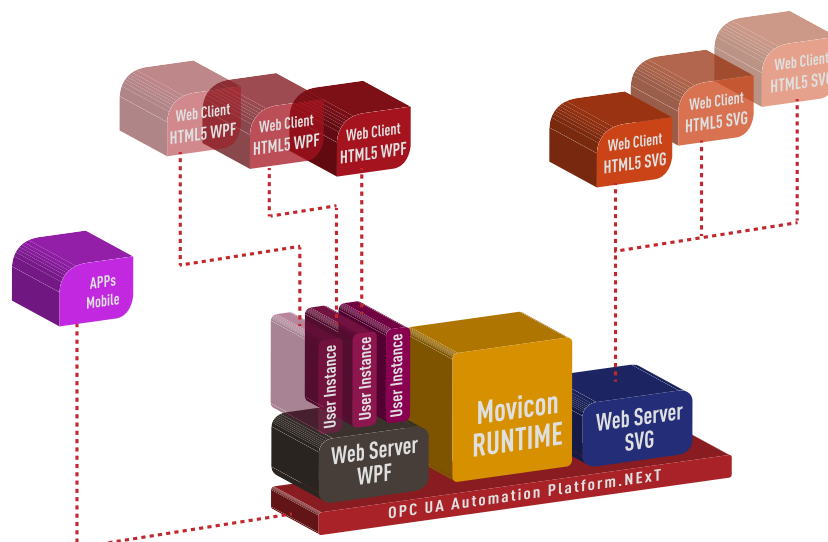
Remote Access over the web for your every need

Movicon.NExT™ features a cross-platform Web Client technology of new generation, to deliver flexible and adaptable solutions

With the emergence of the HTML5 standard, the Web Client technology can now offer users a real standard and cross-platform architecture that can run on any PC, operating system, browser or mobile device.
A cross-platform solution makes projects accessible from while still maintaining the fundamental requisites of security and undiminished graphics rendering.
The WPF based web technology runs instances on the server to deliver screens with maximum graphics rendering quality and unlimited performance on the entire user interface of Movicon.NExT™. As the SVG Web technology processes graphics locally on the client, it is the best option for those applications that do not require exceptional WPF graphics on the Web Client but need to allow access to several concurrent users. Specific apps for a better user experience on mobile devices, based on Google Android, Windows (WUA) or Apple iOS operating systems, can be downloaded for free.

- Project access and visualization over the web, using any browser on any operating system, thanks to the HTML5 technology.
- Completely automatic creation of the project's web pages on the server, with just one click.
- Server project's dynamic screen visualization on web browser, with user authentication, access control and web-side restriction rules.
- No additional installation or configuration needed on Client or Server.
- Enhanced performances, transparent support to project functionalities and commands, simply using a normal web browser.
- Data management security.
- High performance and event-only notifications.
- Web tools for local analysis of historical data on server.
- Optimized WebSocket-based communications.
- No need to install software or distribute licenses, thanks to the application centralized on Server.
- Project Reports supported over the web.
- Geographical Maps supported over the web.
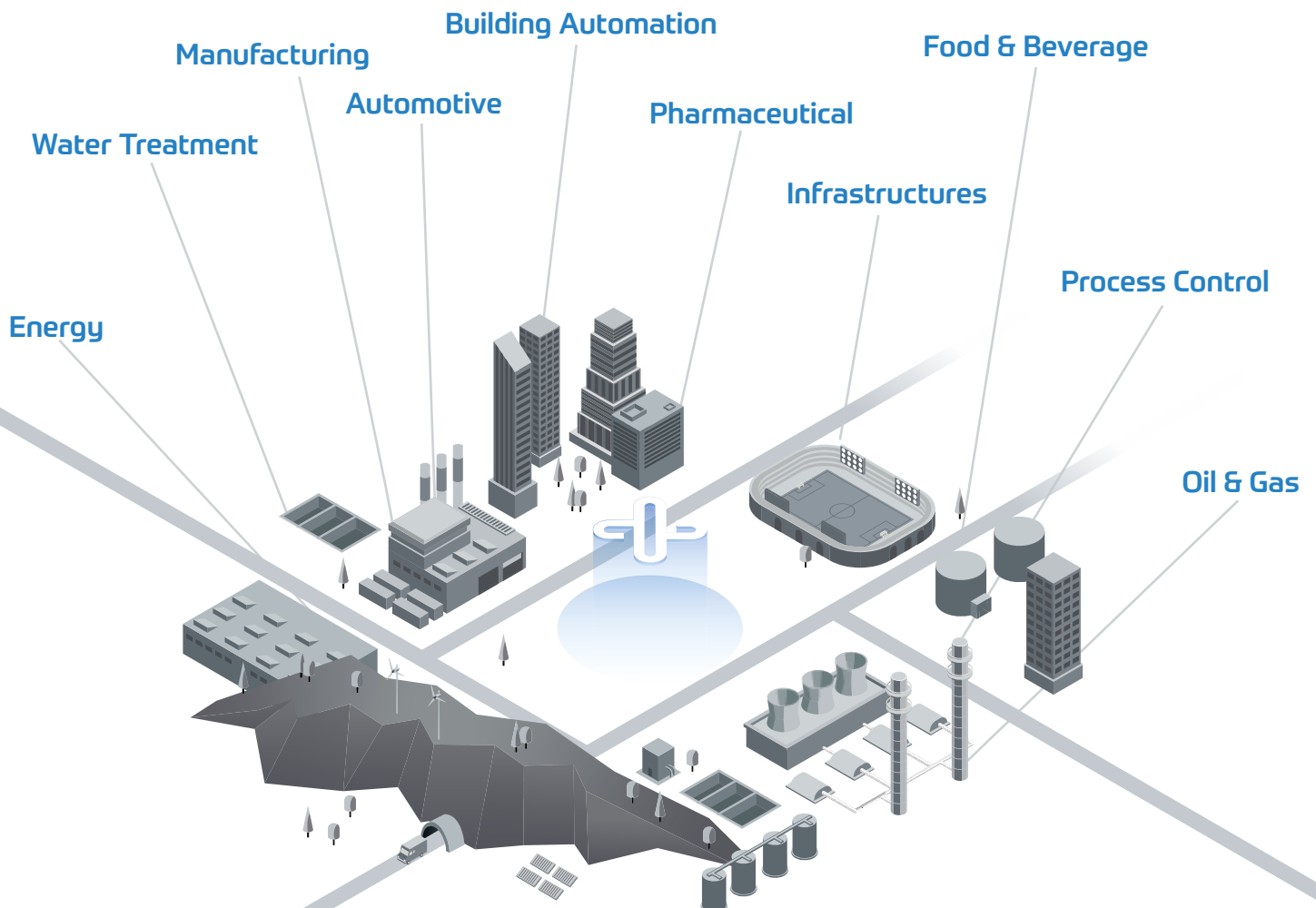- Cognitive Augmented Reality support.

For any automation sectors

Movicon.next™

The ideal solution for industrial manufacturing, process control, infrastructures and Building Automation sector:

Building Automation

Manufacturing

Automotive

Food & Beverage

Pharmaceutical

Water Treatment

Infrastructures
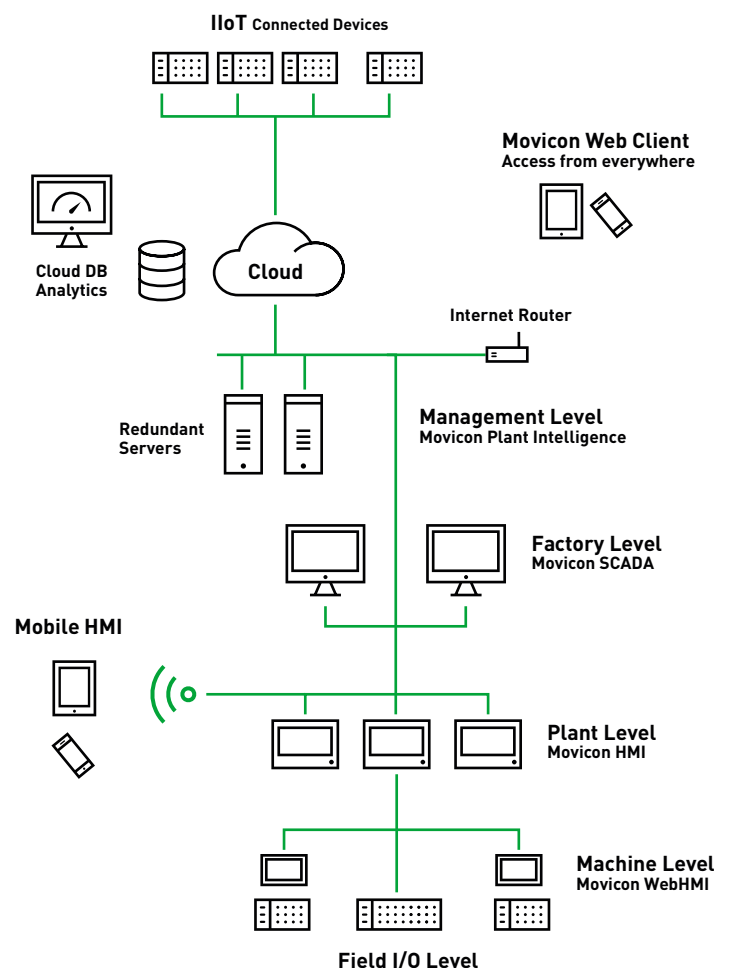
Process Control

Energy

Oil & Gas

Easy. Simple. For Everyone.

Modular and Scalable Licenses

Modular and flexible licensing policy offering the best cost-effective solutions.

- Scalable Server/Client Runtime licenses based on number of Tags connected to the field.
- Scalable architectures, from small applications to redundant and mission critical systems.
- HMI Runtime licenses for OEMs and Machine Builders.
- WebHMI Runtime licenses for cross-platform, low-cost HMI solutions.
- Simple and easy-to-distribute Client Runtime licenses.
- HTML5 Web Client and APPs require only activation on server, without installing any license.
- Configurable NET licenses for network architectures with license sharing.
- Cost effective Editor license, including all complete features and technical support.
- No maintenance costs or service charges on runtime licenses.
- The development environment runs in DEMO mode (no license) with full capabilities, without technical restrictions and can launch a fully operational runtime for two hours.
- Licenses are available on USB dongle or as a software license key (tokens) that can be activated over the web.

IIoT Connected Devices

Movicon Web Client
Access from everywhere

Cloud DB Analytics

Cloud

Internet Router

Redundant Servers

Management Level
Movicon Plant Intelligence

Factory Level
Movicon SCADA

Mobile HMI

Plant Level
Movicon HMI

Machine Level
Movicon WebHMI

Field I/O Level

An ecosystem of modular software products

Movicon.NExT™: an ecosystem of modular products at the service of Industry 4.0. Supervision, Connectivity and Efficiency in an all-inclusive industrial software platform.
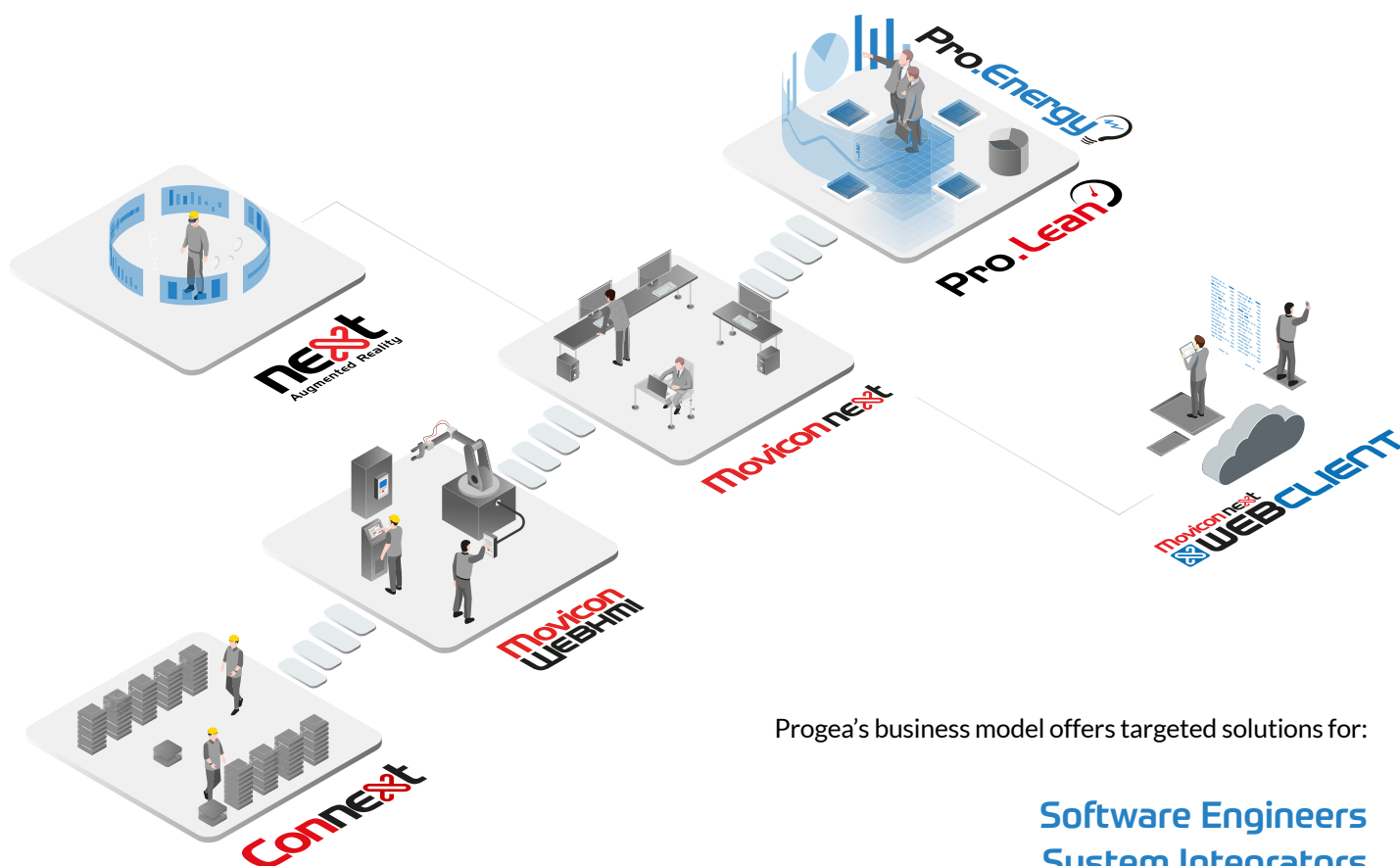
Progea's business model offers targeted solutions for:

Software Engineers
System Integrators
Machine Builders
Public Utilities
End Users
Partners
OEM

30 years of experience in automation software technology

Care for quality

Progea is a company that has always placed product quality at the centre of its activity. The entire company, including the product development and validation processes, are certified with the ISO 9001:2015 norm Quality System, with additional audits in compliance with the EN50128 SIL 0 requirements. Furthermore, Progea guarantees excellent customer care with its own support services, essential to all those operating in critical automation processes such as process control and infrastructures.

Value added Services

The Total Cost of Ownership (TCO) of a software platform is strongly influenced by the quality of the correlated services. Important parameters such as Learning Time, Response Time, Service Quality and Consultancy are generally considered the true added value of a software product. Progea's services deliver a quality level that only the producer company can guarantee. Customers can rely on Training, Technical Support and Consultancy services from Progea when confronted with any application or unexpected project need, and this assurance contributes to reducing internal implementation and development costs. Progea is directly available at the offices in Italy, Switzerland, Germany and the United States. Additionally, an international network of trusted distributors supports the Progea™ brand worldwide.

The Movicon™ Community

Progea promotes and encourages active knowledge sharing. Progea can count on a vibrant community of users where information, suggestions and advice are shared and where web tools managed by Progea can be used to access all the technical information on the platform's life cycle and its technology. Progea regularly organizes Community events and free information and training programs. The website provides a Forum, Blog, Bugbase, Knowledge Base, Examples and much more.

A solid partnership

Progea's software technologies are ubiquitous and used for automation applications and solutions by leading companies in every industrial sector, with over 150,000 licenses installed worldwide. To demonstrate the quality and reliability of its software products, Progea is proud to have been chosen by the major players in industrial automation. Progea's technology is used and distributed by global leaders in automation, some of whom use it under different brand names other than Movicon™.

Download the software from the website and try it out by creating your own Movicon.NExT™ project. In the absence of a valid license, the software functions in DEMO mode and is fully operational.

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Gold
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Partner
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Passion for innovation

INDUSTRIAL AUTOMATION SOFTWARE

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