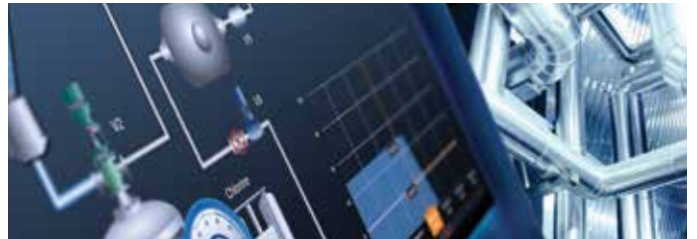


INDUSTRIAL AUTOMATION SOFTWARE

progea 



Solutions and Products





Progea: passion for innovation

Progea is an Italian company operating as an international developer of platform software for industrial automation. The Progea Group, whose HQ is based in Modena in Italy, has been active in developing industrial automation software for more than 25 years with a steady growth in size and sales and an international presence that is constantly expanding. Today the Progea Group employs over 40 personnel throughout its HQ in Modena, regional offices in Milan and Vicenza and branch offices in Germany, the United States and Switzerland. International distribution is coordinated from its Swiss branch with more than 35 distributors worldwide. Progea has successfully been able to regulate its own steady growth simultaneously pursuing its passion for innovation. Dynamic evolution is the philosophy that Progea stands by and as a player in a fast evolving automation software arena, it has earned its share of the market not only in merit of its product technology but also for the quality support and services that it strongly believes are essential components to any product. Essential because if these components are not provided with the product, either because they are unavailable or managed inexpertly, could cause the customer a considerable loss in terms of indirect costs that could run into the thousands. The company has gained important ground in both the Italian and International markets for its professionalism in handling its network of distributors abroad and establishing international partnerships with major companies such as: Phoenix Contact, ABB, Panasonic, VIPA, Forbes Marshall, Bosch Rexroth, Stahl and many others. Progea's software has proved to be the cutting edge of advanced technology that has become the state-of-art in SCADA/HMI platforms.

The Team

A dynamic company, an enthusiastic management team and highly motivated group feature strong within Progea, a company with a natural talent for innovation. What makes Progea special is its capacity to work as a team. All those who work for Progea participate together in the Movicon™ project with dedication and enthusiasm. Group harmony optimizes information sharing that enables product integration at a high level. The enthusiasm that the team has in their work is greatly reflected in the resulted product quality, to the best interests of the customer. The company is efficiently organized to design, support and promote the most innovative SCADA/HMI software on the international market in the best way possible.

Accreditations

Progea belongs to the Microsoft Certified Professional program and is an active OPC Foundation member whose specifications they leverage. To demonstrate their commitment to research Progea has been accredited by the Italian Ministry of Education, University and Research (MUIR) who use their technology in research laboratories. Research and innovation are at the forefront of the company's philosophy.

System Quality

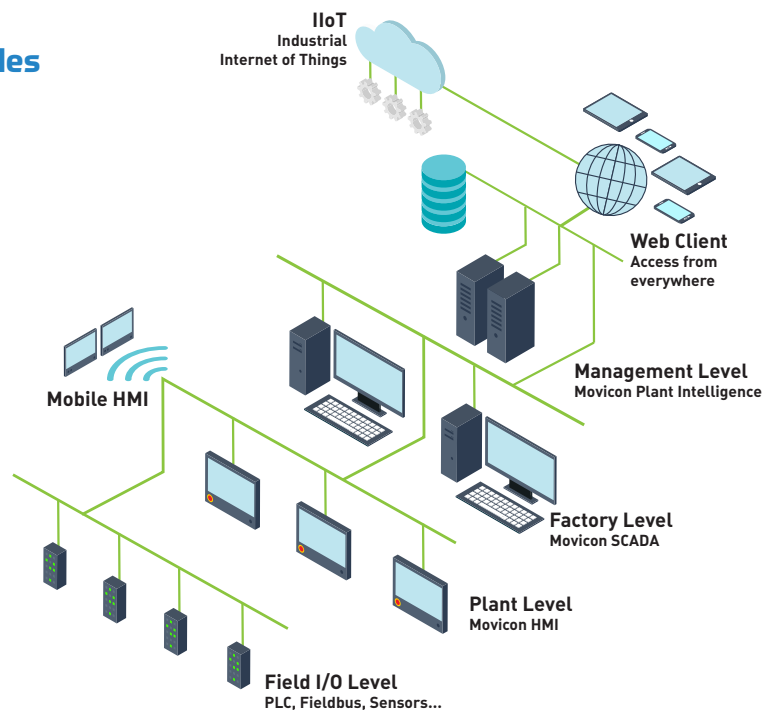
The company operates in conformance with the quality management system requirements according to the UNI-EN ISO 9001 norm. System quality is certified by TÜV Sud.



Open and flexible software solutions

Progea adopts and promotes an international culture of innovation, quality, creativity and excellence in the development of increasingly innovative software technologies and post sales and customer care services.

Being flexible is one of the major necessities in modern automation. It means being quick to adapt to customer demands without sacrificing work and know-how. Progea's suite of software products has been designed with this in mind to offer the best guarantee to protect customer investments. Only the one software technology need be installed to satisfy every automation application need starting from the control level (PLC, HMI) right through to the SCADA and Plant Intelligence levels. Progea's software solutions have been designed to adapt to all modern automation application types according to Industry 4.0 in order to offer innovative and sophisticated architecture with a flexibility and simplicity of use oriented approach. These are the essential characteristics that determine cost reductions and which are featured intrinsically in Progea's comprehensive connectivity, visualization and control software technology. This one software is all your company will ever need to cover every business and productivity need allowing you to save in terms of learning, upgrading and training personnel.





SCADA and GeoSCADA Supervision

The Movicon™ technology is the solution that revolutionizes the industrial supervision concepts

Progea has been operating in the world of industrial supervision for more than 25 years by offering their customers an exceptional know-how in the form of cutting edge software products. Movicon™ is the SCADA/HMI platform that has been supplemented with the new generation NExT technology in response to over 100,000 applications along with distribution in every automation sector for global use. The new platform uses the Automation Platform.NExT™ technology consisting of a .NET framework based on OPC UA which has been developed by Progea to represent a new generation of industrial software applications. The modularity and flexibility of this system will empower users with technology that is considered innovation at its best. It allows users to obtain an ecosystem of applications providing SCADA supervision, GeoSCADA telecontrol, HMI solutions, connectivity systems, IIoT and Plant Intelligence and productivity solutions. Movicon™ is the ideal product to use for creating innovative, open and flexible supervision solutions designed to adapt to all modern automation application types and needs. Even though its architecture is very sophisticated, it fosters maximum flexibility with a simplicity-of-use approach. Ultimately, Movicon™ is a very simple-to-use SCADA/HMI platform based on modular and standard technology. The new generation product has an infrastructure designed for industrial deployment using the OPC UA model in a Client/Server architecture with plug-in technology to expand its modularity. Movicon™ equips design engineers with all the

tools they will need to quickly create powerful visualization and control applications. This they will be able to accomplish by using the most innovative technologies to connect to the field and integrate seamlessly with the entire world to distribute information to local or remote clients and connect to any measuring and control device as required by Industry 4.0 and implementing the IIoT gateway functions. The graphical interface uses a new WPF/XAML vector rendering engine with 3D and GeoSCADA plus HTML5 Web accessibility. The Historian and Data Loggers record data on SQL Database or to the Cloud. The Multi-server Redundancy function ensures maximum reliability at all times in mission critical applications. Security is ensured with the use of a User Management based on the membership principle. Integrated Logic and many other functions are provided to satisfy any automation need. Choosing a SCADA software technology is a strategical choice that is assessed not only for how innovative, powerful, open, simple or flexible it is but also on the quality of the collocated services and the dependability of the software developing company. These are important and crucial factors that must be considered when investing in a software product for long term deployment. Progea is fully aware of the importance of these factors and, based on their extensive experience, are now able to offer solutions that are aimed at providing their customers with an indispensable lifelong partnership to protect customer investments. Movicon™ is the best choice of SCADA/HMI products that today's market has to offer.



HMI Software for PCs and systems embedded

Progea offers software solutions for powerful, open and hardware independent HMI

The HMI software technology offered by Progea is based on the concepts of openness and flexibility. Due to their vast experience in SCADA technology, Progea offers powerful but simple and light solutions that ensure a more sophisticated way of functioning which are even easier to use and more scalable and powerful compared to the usual conventional software. Progea's HMI software has been designed for Embedded systems and PC with scalability from small operator panels based on Windows CE or Windows 10 IoT to PCs with Win32/64 operating systems. The big advantage gained by using this software is that users need only use the one editor to create HMI projects that can be distributed from the PC to smaller operator panels.

Today, HMI technologies demand even more evolved systems that can satisfy every machine and plant need of the new generation. Even though this technology must provide powerful features, it is essential that operators find it very easy-to-use as well. This is something that does not only depend on good design but also on the features offered by the HMI software to enable this. Progea's HMI software is oriented towards offering efficient and effective solutions for End Users, Machine Builders and System Integrators. Ultimately, Progea's HMI software is designed to protect customer investments, reduce management costs and facilitate maintenance and upgrades.

Progea's vast experience in the SCADA world has led them to offer HMI software with:

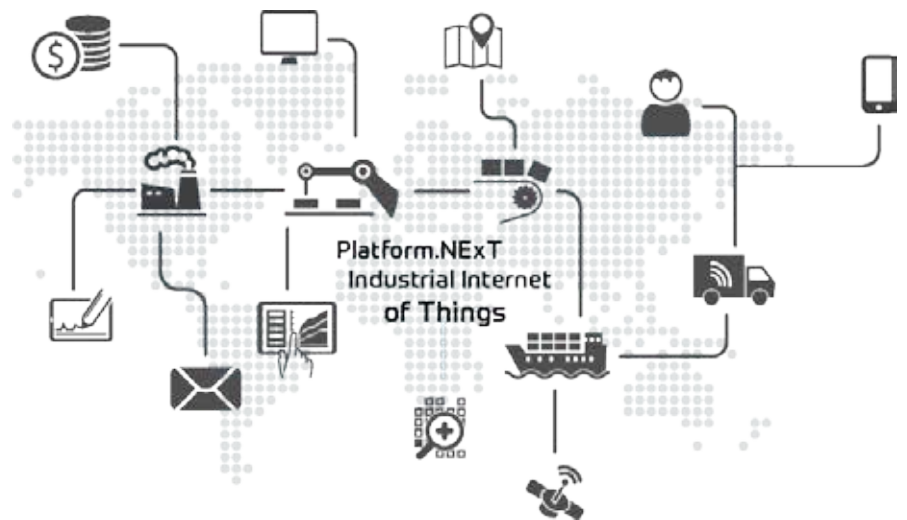
- **Maximum Scalability:** the same project can run on PCs and small embedded systems with Windows CE or Windows 10 IoT.
- **Hardware independent:** you choose the panel that suits you best without changing the HMI project.
- **Flexibility:** integrate SCADA, HMI and Operator Panels in your architecture using the same software.
- **Minimum investment:** only one editor, only one software product for all your projects.
- **Reduced Maintenance:** deploying the one software in your company means a reduction in maintenance costs.
- **Expandability:** HMI projects can become true SCADA without needing to change a thing.
- **Openness:** vast Communication Driver library to connect to any PLC or automation device.
- **Constant innovation:** to protect long term investments
- **Assistance and Consultancy:** excellent services for your each and every need.
- **Product customization:** brand name your HMI and choose the license management that suits you best.



Industry 4.0 and Industrial IoT

Connect remote devices and distribute information using simple and innovative platforms

It is becoming even more important in the era of the 4th industrial revolution to establish communication between each individual device across all productivity levels to facilitate information flow with the aim of improving efficiency and increasing productivity. Today we are entering a new age of experiencing information sharing as interpreted by the Internet of Things concept. However, there are very few efficient and cost effective solutions that can manage the integration of existing devices let alone new ones to come. Moreover, technologies are also fast evolving and to deal with industrial device interconnectivity effectively we need solutions that are flexible, scalable and easy to integrate. Progea is specialized in industrial connectivity and is constantly developing communication drivers and solutions to enable data collection from any field device. This data is then aggregated and made available to data management and visualization systems using open and standard solutions such as OPC UA or IoT. Progea has the right software solution that is the most adaptable to your every connectivity, data collection, IIoT, Big Data or Data Analysis project need.





OPC UA Server and Historian

Progea is specialized in communication protocols and OPC technology

Thanks to the vast experience in the field of industrial communication, Progea is fully capable of offering the necessary components to all those who need to manage communications between field devices and their supervision and control applications. With many communication protocols available in the Progea software technology, they can be used for managing address spaces that are accessible to any OPC UA Client application. By using Progea's OPC UA Servers, the user will be able to manage field device connectivity effectively using the specific protocols to make information from these devices available to third party applications. The OPC UA Servers can also manage data logging functions using the Historian and Data Loggers to aggregate data in one or more local or network databases or in the Cloud. This collected information is then made available and accessible to business information systems for analyzing as needed. The Historian and Data Logger functions are very effective and reliable for performing these types of operations. This is due to the integrated multi-server redundancy feature that ensures solutions are highly reliable for communications and managing database archives that are made available to the IT world.

Connex™ is Progea's OPC UA Server software product that offers flexible, modular and simple-to-use solutions that allow you to:

- Collect data from the field using native Drivers for the most popular devices (PLC, CNC, RTU, Fieldbus, Networks, IIoT)
- Communicate with devices and other applications using the integrated OPC Client and Server technology
- Manage complex data structures
- Use as a Gateway to assorted systems
- Record data on time, event or command
- Manage relational databases such as SQL Server (default), Oracle or MySQL
- Map data in the Historian (Time-series data) or Data Logger
- Record data in the Cloud using Microsoft Azure™
- Manage Server as Window Service
- Manage reliability using the integrated Redundancy functions (hot backup)
- Use the OPC UA specifications for Data Access, Alarms & Events and Historical Access

Thanks to Progea's OPC UA Server and Historian solutions you will be able to realize data collection applications that can be used in any sector to interconnect the factory floor, information and business management systems at all enterprise-wide levels.



Augmented Reality HMI

Progea is one of the first companies to offer new human-machine interaction concepts with augmented reality using wearable devices

Technology evolves rapidly and therefore the concepts of HMI also evolve in unison with technology. Today augmented reality is much talked about and is beginning to have an impact in the industrial world. In compliance with its philosophy for innovation Progea has started developing Augmented Reality solutions for HMI by experimenting with wearable devices of the latest generation such as smart glasses and HoloLens. By means of using wearable Augmented Reality devices, Progea is convinced that operators will benefit by this new man-machine interaction experience to further simplify process management and obtain real-time information in exact accordance to the context in which the operator is working in. After successful testing Progea now offers the wearable smart glass device based on Android and the HoloLens based on Windows 10 that are both capable of visualizing 3D graphics from the Movicon.NExT™ supervisor by means of using the holographic visor. The wearable device apps are elements belonging to the Movicon.NExT™ technology ecosystem with which they are connected to and interact with.

Thanks to the new Augmented Reality HMI technologies, Progea offers solutions that assist the operator with a series of real-time information from the Movicon™ supervision server that is made available to the operator by means of using wearable devices. The operator, or maintenance worker, is therefore able to instantly have the essential information they need to run the system efficiently and make on the spot productivity improvements when needed. Progea's solutions for Augmented Reality operator interfaces will transform your monitoring system to a higher realm at a lower investment.





Smart Buildings

Progea develops efficient solutions for smart building supervision based on experience in SCADA/HMI supervision and control software technology

Movicon[™] Building Automation (BA) is the special edition of Movicon[™] that offers the big advantage for those who operate in civil automation to have open software technology that integrates all modern building automation and communication subsystems in one supervision system.

A technology that can be applied to all building types whether commercial, residential, infrastructure or big town centers. Movicon[™] BA offers all the advantages of open and flexible solutions thanks to Progea's vast experience gained over the many years operating in the automation sector. This experience allows Progea to operate efficiently to deliver targeted solution offerings that satisfy all the current needs of system integrators operating in the Building Automation sector. The SCADA technology used in Movicon[™] BA offers a standard and open solution to integrate and visualize technological systems used in smart buildings such as HVAC, air conditioning, illumination, fire and burglar alarms, security, remote video cameras and CCTV, energy management and any other system that is used in building automation. This is done by tracking the functional parameters and consenting supervision and control of all systems over the Web.

Integrated building management

The growing demand for powerful and open solutions for Smart Buildings, Building Automation and Residential sectors has led Progea to create a special software product edition for this market. Movicon[™] BA has been designed especially for the world of Building Management System (BMS), and can make your building supervision more powerful, open and scalable than any other product offered on the market today. Movicon[™] BA is the ideal solution for those who wish to integrate automation technology, such as PLC systems or IIoT data collection, in their smart building supervision systems. Progea is an expert in supervision and control system software (SCADA/HMI), and has designed Movicon[™] BA to offer users the advantages of an open software for the integration and visualization of modern building automation systems, whether they be residential, industrial, big community centers or in the tertiary sector. Movicon[™] BA offers flexible solutions that permit users to create Client/Server architectures, HMI systems, data collection with SQL database and analysis systems, Web accessibility, on-call personnel rotation management, maintenance management and much more. The great experience gained throughout many years of success has permitted Progea to deliver solutions that can satisfy every need of those who wish to create integrated systems using a unique comprehensive, powerful, flexible and open visualization and control software.



Plant Intelligence

Progea offers production data collection software solutions for OEE, KPI and Downtime analysis

The manufacturing industry needs to be able to obtain efficiency and real-time information so that they can identify and remove the causes of downtime to increase productivity. For this Progea offers Pro.Lean, the solution that collects production data fast with great simplicity to record on DB (SQL Server™) to examine the deviations between theoretical and actual production effectiveness. This is done by measuring the productivity indicators and analyzing the causes of inefficiency. Once the KPI (Availability, Performance and Quality) have been measured and the Overall Equipment Effectiveness (OEE) together with the downtime causes have been made evident, ways of removing any inefficiency detected can be then sought and put into action immediately. Progea's solution is very effective and affordable and allows you to know what is causing performance inefficiency so that you can remove them and improve your productivity.

Pro.Lean is a functional module from Progea's Platform. NExT™ technology and is offered as a solution targeted at Plant Intelligence based on open, modular and flexible architecture. This module is an integral part of the Movicon. NExT™ suite. It comes with a wizard to configure analysis systems within a few clicks to aggregate real-time plant data on a SQL Server™ database. Dashboards and HMI panels have been provided to display data along with ready-to-use and web accessible analysis Reports.

Energy Efficiency

Progea offers software solutions to effectively control and monitor energy consumptions to improve energy efficiency

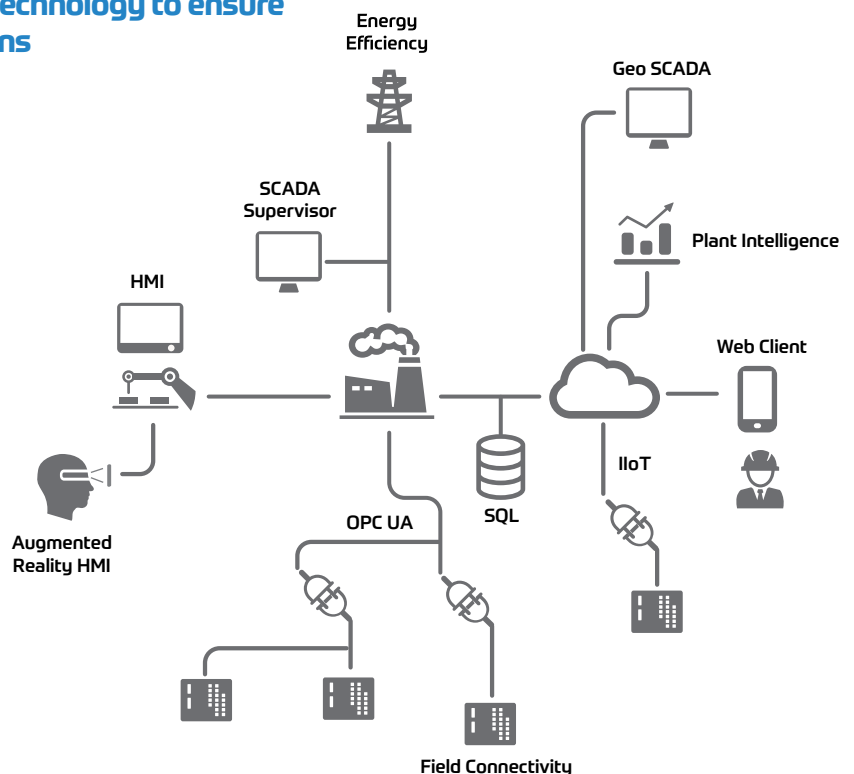
Today, the introduction of energy management systems is fast becoming more important to reach energy saving targets by making energy consumption more efficient. A high percentage of company operating costs are spent on electricity, gas and water bills that can be reduced significantly if managed correctly. This can easily be done by using Pro.Energy, a simple and effective software solution offered by Progea and designed to help reduce energy bills. It provides analysis tools to optimize energy usage so that it is utilized more efficiently with the aim to reduce costs and gain significant returns financially as well as cause less negative impact on the environment. Measuring the entire company's Energy Performance Indicators (EnPIs) to eliminate waste thus reduce consumption and optimize resources is the correct company strategy to gain sustainable savings on costs and increase competitiveness. Pro.Energy is the module that is part of the Movicon.NExT™ suite and includes a wizard for single click configuration to enable a constant monitoring of Electricity, Gas, Water, Compressed Air, Vapor and other usage costs. All consumption data is recorded on a SQL Server™ and real-time analysis and notification tools are provided with web accessibility to improve energy efficiency and increase competitiveness. Pro.Energy is essential for every company that needs certification in conformance with the UNI EN ISO 50001 norm.



Excellence in software technology for every automation sector

Products based on cutting edge software technology to ensure powerful, open, flexible and reliable solutions

Progea's technology platforms are the results of thorough research in software ergonomics to make their products pleasantly simple to use. Progea's software surpasses every other product for simplicity of use and intuitiveness thanks to the Intelligent Editor and integrated auto-configuration tools and Tag importing. Development times are reduced drastically because all the tools and functionalities needed to do this are available in the same single environment with maximum information integration and transparency. By using Progea's software, design engineering becomes a great pleasure and immediate. Effective results and great visualization are guaranteed in next-to-no-time thus ensuring the protection of your investment. The latest generation of technology, guaranteed quality and support services committed to customer satisfaction and a modular cost program to adapt to your every need will inevitably make your choice in using Progea a long-term winner.



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