



Movicon[®] 
BUILDING AUTOMATION



**Supervision Integration
for Intelligent Buildings**





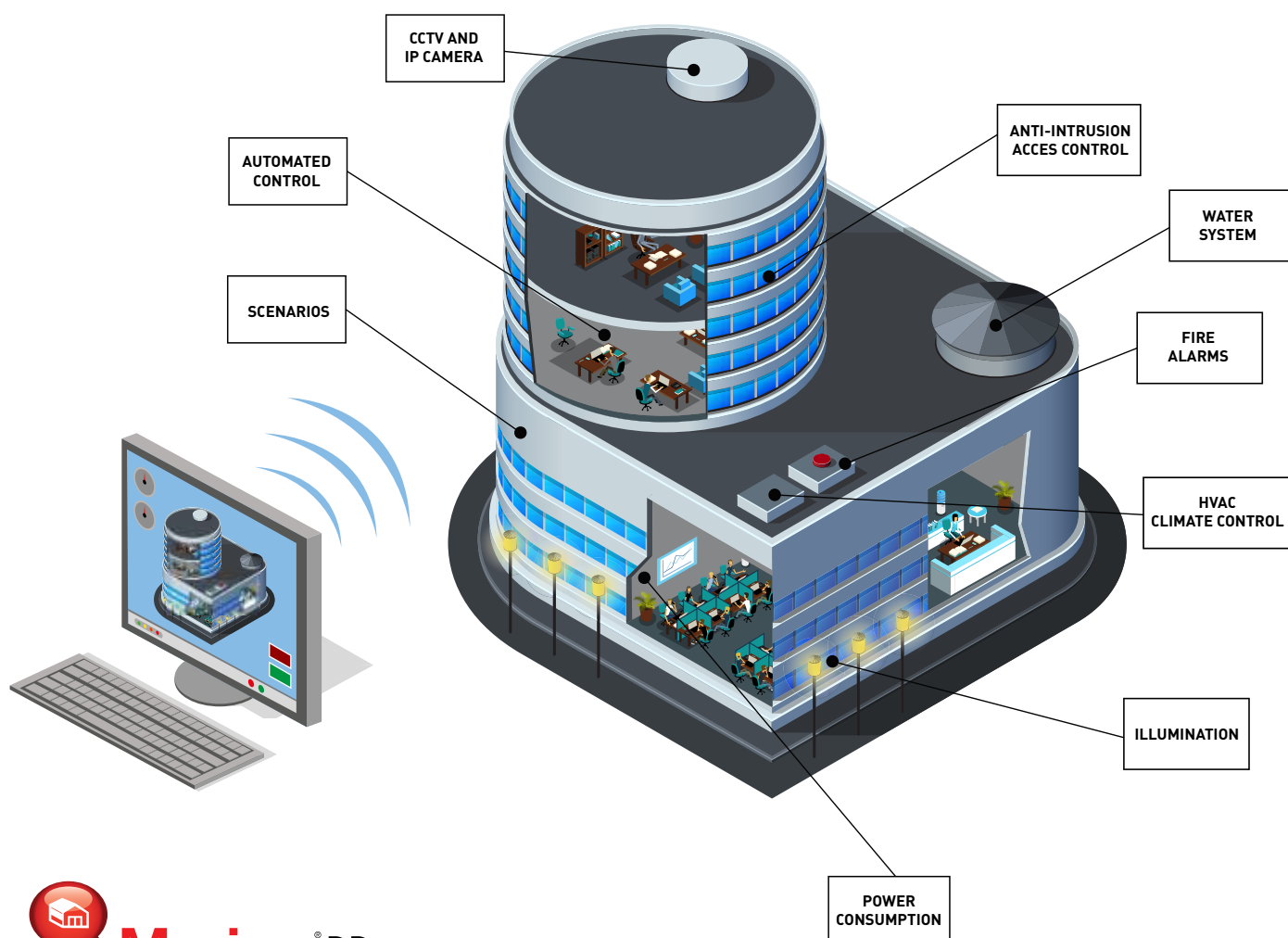
Modern Intelligent Building Supervision



The software technology Scada for Building Automation


Progea has been operating since 1990 committed to producing powerful and innovative automation software. Their vast experience, united with the most innovative technological solutions, make the Progea team 'experts' in Scada/HMI solutions applicable to all civil and industrial automation sectors.

Movicon™ BA is the Scada/HMI solution designed for Building Automation using the simplicity of use criteria. It comes equipped with full documentation and website support with a rich information and example content purposely dedicated to the developer community to minimize the need to resort to the Technical Help Services. Training, Help and Advice services guarantee support in helping the user to deal with any planned or unplanned application need. Support that contributes to reducing installation costs and internal development as a consequence.





Building management integration

 **The Movicon™BA software will make your building supervision more powerful, open and scalable than any other software around.**

Building Automation

Movicon™BA is Progea's supervision solution for intelligent buildings. Progea are leading experts in supervision and control software systems (Scada/HMI). Movicon™BA offers all the great advantages of 'Open' software for integration and visualization of automation systems for modern buildings, whether residential, industrial, services or big communities. Movicon™BA offers all the modern software advantages with very flexible solutions. Vast matured experience gained and deployed successfully over the years has permitted Progea to deliver the right solutions to satisfy the most demanding system integration with an all-in-one, powerful, open, visualization and control software.

One open solution

Movicon™BA guarantees all the openness needed in integrating all building management systems into the one same supervision project. Just the one project with less effort, guaranteed to save you time and resources while adding more potential to your building supervision and control. The Movicon™BA platform technology is completely XML-based. An all-in-one visualization to finally allow you to connect control buses, lights, heating and air conditioning systems, security systems, CCTV, power saving systems and any other device commonly used in the building management ambient.

Deployment flexibility

The flexibility of Movicon™BA will empower you to integrate your systems into any type of architecture, whether it be PC Desktop, Media Center, Tablet PC (Win32 or Win64), Touch Panel (Windows Embedded, WinCE), Palmtop or SmartPhone (Windows Mobile). You will be able to access your system through the Web using any Internet browser or using your smartphone or tablet from wherever you happen to be in the world. There are no limits to the visualization solutions you can realize with Movicon™BA. Getting everything in your power and control is easy with Movicon™BA.

True userfriendliness

Creating supervision projects with Movicon™BA is simple and fun. A powerful object oriented editor allows you to create real-to-life graphical interfaces with animated and interactive screen pages, using the vast range of vector graphics or your own BMP, GIF and JPG drawings. Movicon provides you with all tools ever needed and ready-to-use for you to accomplish visualization just the way you want it. Pre-configured graphics libraries, communication drivers, alarm management, historical logs and control, event scheduling, trends, charts are all within a- click's reach in an all-rolled-into-one userfriendly software environment.





SCADA technology designed for Building intelligence

Movicon™ BA consente di integrare in una sola soluzione tutte le diverse architetture di impianto. Un unico centro di supervisione.

Integration is the keyword

Movicon™BA offers you the great advantage of hardware independency. This means you can use the same software in any PC, Touch Screen or Palmtop, connected with all building control systems, in field buses bus, such as EIB/Konnex, LON, BACNet, in central control panels using Notifier, Elkron plus others, in bus systems with RTU or TCP Modbus interface along with many other system types. You can integrate CCTVs and IP Cameras and be completely free to choose how you want your system just by using the one same software. Maximum deployment flexibility while safeguarding your investments at the same time guaranteed.

Information sharing on the net

Movicon™ BA offre il vantaggio della libera circolazione delle informazioni grazie alle funzioni di Networking su rete Ethernet ed alla tecnologia OPC, consentendo l'integrazione del vostro supervisore nei sistemi LAN.

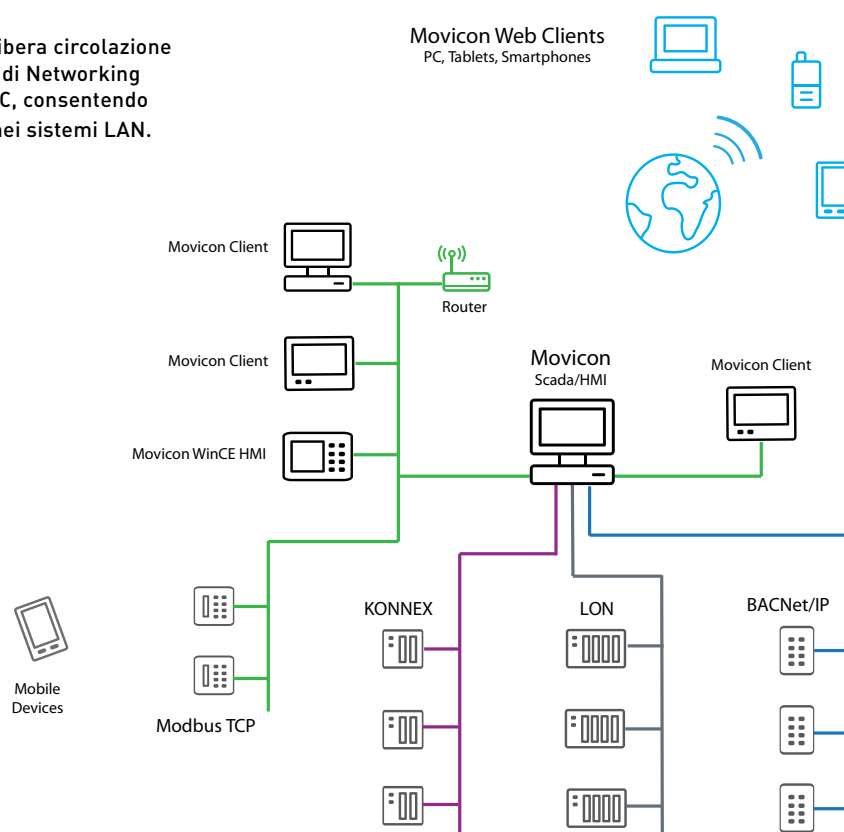
Potential Enhancement

Override the restricted use of conventional supervisory systems. Movicon™ BA offers all the powerful features typical of SCADA/HMI systems to remarkably enhance data visualization. Engage in a powerful object-oriented graphics environment with an efficient Alarm management, Historicals in DBMS (i.e. SQL Server, Oracle, MsAccess), trends, scenarios, schedulers and control logic. All ready-to-use in a powerful but simple programming environment.

Cost Effective

With Movicon™BA you only need to use just the one development environment for all your supervision and control systems, saving you a great deal in learning, training personnel and maintenance costs. The Movicon BA licenses are scalable, flexible and upgradeable to Movicon™11, contributing to even further development and maintenance cost reductions.

The Movicon BA flexibility consents total integration of different networks and devices in supervisor technology. Information can be distributed in PC, touch panel screens, mobile devices and over the web.





Software for building management integration

Superior graphics

The main task of any supervision system is to visualize building system processes. The clearer the running of the building is visualized, the easier it is to keep it in top working order. Compared to a decade ago, today's building managements explicitly demand building systems to be visualized more true to life. Needless to say, graphics play an important part in determining a closer to reality effect, which can be time consuming in the project development stage. This is where Movicon™BA is superior by providing the most powerful graphics to achieve great life-like visualization in less time.

Powerful Alarm, Historical Log and Statistic Managements

The powerful Movicon™BA alarm management guarantees maximum precision in handling events and offers users a rich source of information for constant and immediate updating on current plant situations. This important live knowledge gives user the complete power to react straight away, minimize system downtimes and improve efficiency. The Alarm Log management (Historical Log) automatically records all events (alarms, Driver Events or System Events) in the appropriate files based on relational ODBC databases (Open Database Connectivity) or on .CSV, .XML or encrypted, files.

Send SMS-Voice-Email-Fax

Movicon™ BA offers a powerful solution integrated for event and alarm notifications. Movicon™ BA gives you the option to receive notification of any verified programmed event (alarms or other configurable events) directly on your mobile. Movicon™ BA can send notifications by SMS or vocal message (Text-To-Speech) to your phone. You can also receive emails with attachments and faxes. Your system will keep you updated on what is happening directly whenever and wherever you may be. By using Movicon™ BA you can truly say that you have everything under control at all times. Movicon™ BA gives you more freedom to intervene or interact by remote control using the Web to prevent downtimes and to optimize costs.

Riconoscimento Vocale

Thanks to Movicon™BA, your control system will be able to recognize vocal commands, where users can interact with the system vocally to give orders and invoke commands in a more natural way with their own voice. The system can be made to recognize and acknowledge vocal commands, request confirmation or the value desired (i.e. setting temperatures). This feature can be used as an alternative to using touch screens or keyboards.

IP Camera

Movicon™BA integrates native solutions for managing ages transmitted by IP cameras. Thanks to the 'IP Camera Viewer' window, images can be viewed both on local PC stations and in embedded systems (WinCE, PocketPC) or via Web, without having to use inappropriate and expensive add-ons. In addition, Movicon™BA consents to external component integration, such as ActiveX and third party libraries, to guarantee support to the simplest of WebCams right through to the most advanced digital video-surveillance systems.

Recording and Statistical Analysis

Movicon™BA integrates powerful Data Loggers all events, alarms or any other process data (temperatures, consumptions, etc.), and store the logged data in Relational Databases in complete automatic mode. The historically logged data is in open format thanks to the ODBC technology and supports SQL Server, Access, Oracle and others. Recorded data can be visualized with 2D and 3D graphics, Trends, Tables and Reports, as well as on the web. Powerful tools for analytic managing of events and system downtimes consent you to obtain reports relating to total or partial downtimes. This information, both in table, pie or histogram format, lists all alarm occurrences and their classifications by "Duration" or "Frequency" in the preset time ranges desired. These Reports can be displayed and printed as pleased, on command or on event. The can be exported in various formats (Excel, PDF, HTML,) and provide complete detailed information of each single alarm scanned.



Movicon™ BA beyond the simple supervision

Programmed Maintenance

Movicon™BA simplifies programmed maintenance management by providing the option to activate alarms not only on associated variable values but also on their duration statistic values. This makes it easier to set intervention thresholds on set-points, relating to variable total permanent times ON. To support system users further in their work, Movicon™ also consents to external file associations for activating help files (HTML), movie files (.AVI), sound files (.WAV) or BMP files.

Analisi Consumi ed Efficienza energetica

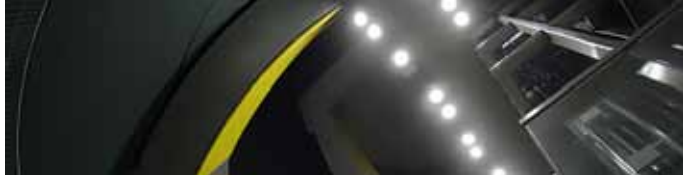
New technologies now allow you to manage and optimize your building power resources to help protect the environment from CO₂ emissions by reducing building power consumptions. Analysis can be run to find out areas where energy is over used in order to reduce and improve its efficiency in the most cost effective way possible.

The European Commission has issued the EN15232 norm which defines the functions of Building Automation for efficient building energy performances. It defines the methods used for assessing the requirements and effects deriving from Building Automation Control Systems (BACS) and for obtaining evaluation and classification of the deriving results. All design engineers of modern buildings can integrate modern technology for consistent energy efficiency improvement, using supervision systems such as Movicon™ BA, that are capable of retrieving, measuring and controlling effective energy consumptions according to building type needs autonomously and intelligently. By appropriately integrating Movicon™ BA in the building management it will be possible to economize energy that, according to target use, can vary from 5% to 30%. This means that you will be able to achieve a considerable save on energy costs and get quick investment returns while causing less impact on the environment by reducing CO₂ Emissions.



Alarm History - 1000

Alarm Description	Time On	Time Off	Status	Duration
Emergency ON	08:12:23	01:34:00	OFF	24:00:32
Low Pressure - Pump 001	08:45:11	08:11:34	ON	15:13:00
High Temperature - Room 34	09:01:45	08:03:12	ON	32:01:44
Fault Switch 345 - Room 12	11:05:01	05:01:59	OFF	05:12:01



Safe and easy access to entire building

Movicon™BA is a software platform designed to provide access to your system in Internet/Intranet architectures using any browser or Apple iOS, Android, Blackberry.

Thanks to the innovative Movicon™BA Web client technology, your supervisor can become the access point for remote controlling the entire building. By using any operating system browser you can visualize your supervision system and interact with your building systems in remote, with the option to access by Logging on, independently from the Server. No additional installations or configurations needed, thanks to the Movicon™BA Java technology. You can also install the Movicon Web Client Midlet on your java mobile phone to be used as a Web Client giving you freedom to interact and be kept updated from wherever you may be without running to the next available PC. Your building can easily be made Internet-Ready thanks to Movicon™BA.

Deployment

Thanks to Movicon™BA you can easily integrate and manage all applied building systems, be it residential or industrial. By using your supervisory PC, Touch Screen, mobile system (palmtop or phone) or Internet Brower you will be able to:

- Control and Manage Lights
- Control and Manage Comfort and Climate (heating, air-conditioning, HVAC).
- Technological System (motors, valves, services).
- Control and Manage Water systems (pumps, irrigation, etc)
- Manage Comfort with different scenarios where the preferred ambient configurations can be memorized.
- Manage Alarms or Data from Anti-intrusion or Access Control systems.
- Manage Fire alarm system data acquisitions
- Monitor Energy consumptions with possibility to cut/reduce power supplies.
- Get weather Reports and control blinds, windows, sheds, velux (sky lights, roof top windows) etc.
- Control and Manage Energy (water, lights, hot and cold temperatures). Carry out Statistical Analysis.
- Acquire and manage video camera information on CCTVs and IP Cameras. IP cameras manageable via Web.
- Control and manage Emergency lights in accordance with the law.
- Manage alternative energy systems such as photovoltaic and cogeneration.

Main characteristics:

Movicon™BA is a totally integrated software platform, an all-in-one control system for the entire building which includes project editing and runtime functions.

- One development environment with XML projects executable from Win32/64 to WinCE
- Real-time data acquisition from all the most commonly used Building Automation systems.
- Powerful and unparalleled graphical visualization with vectorial editor, complete and customizable toolbox and graphics library supporting all the most popular design formats.
- Alarm and Event Management and Recording of all integrated systems, with
- Voice/SMS/Email/Messenger/Fax notification
- Guaranteed Access Security, Users, Passwords and Audit Trail
- Networking Integrated with client/Server architectures in Wireless and Mobile systems as well
- Visualization and control via Internet using Browsers or SmartPhones
- Scenario Management with objects and wizards
- Data Logger with historical logs in DBMS (Relational Database)
- Powerful Historical and Dynamical Trends, 2D and 3D Graphics
- Integrated VBA, VB.Net Logic
- IEC61131-3 PLC SoftLogic for I/O control solutions
- Event Objects
- Dynamic Scheduler Objects with holiday plan management
- Native Drivers for bus systems and for Building devices
- OPC Client and Server
- Web Client Technology
- Remote and local Debugger





July 2013
English Edition



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