



 **Movicon.next**TM
Automation Platform.~~next~~ generation

or

Movicon[®] 11.5 ?
MONITORING VISION AND CONTROL

How to choose.

How to choose: Movicon 11 Classic or instead Movicon.NExT ?

Movicon's Users can choose between two different technologies for the Scada/HMI software from Progea. Both products, Movicon 11 and Movicon.NExT, are active on the production line.

The choice of using Movicon 11 rather than Movicon.NExT depends on the kind of application you wish to install in your company based on the company's size. Fundamentally, this would also depend on the level and type of data analysis and number of data access points you wish to implement. With this in mind, customers should find it easier to compare and choose which software technology will suit their company needs best.

Movicon.NExT is offered on the market alongside Movicon 11 as an innovative platform oriented towards technologies of the future. The choice of the two different technologies has enabled Progea to further enhance its offer of software products for automation.

Table of basic technologies:

Technologies	Movicon 11	Movicon.NExT
Compiler	C++	C#
Structure	MFC/COM	.NET
Graphic engine	GDI, GDI+	WPF, XAML
Architecture	Client/Server proprietary	Client /Server based on Progea Framework .NET and Plug In
Project's structure	Files XML (with encryption).	Files XML (with encryption) or SQL Server Database.
Access to DB	ODBC	ADO.NET
Information Model	Proprietary Information Model	OPC UA Information Model
Web technology	JAVA and APPs	HTML5 and APPs
Security	Proprietary	Memberships ASP.NET

Table of functionalities comparison:

	MOVICON 11	MOVICON.NEXT
Technology	Movicon 11 has always been based on consolidated technologies and therefore robust and reliable. It has been designed using C++ with WinForm technology and SVG-based vector graphics. Its proprietary data information model is used in a client-server application-based architecture. Database access is based on ODBC. The Web Client technology is based on Applet (Java) and APP (iOS and Android).	Movicon.NEXt is based on innovative, modern and future proof technologies. It has been designed on .NET and WPF in C# technologies with a plug-in framework designed by Progea in a distributable client-server architecture. The data information model is OPC UA standard-based. The graphics use the new XAML concepts and come in 2D and 3D based on WPF. Database access is based on ADO.NET and the web client is based on HTML5 and APP (iOS and Android).
Scalability	Movicon™ 11 offers an all-in-one software platform, from Windows™ 10 (Win32/64) to Windows™ CE. Thanks to this characteristic, you only need to have the one software in your company to be used for either micro applications in HMI terminals or enterprise-wide supervision applications or both.	Movicon.NEXt has been designed to ensure the maximum scalability and offers one configuration environment for all modular solution types that can be easily integrated in the platform with great flexibility. It is not available for Windows CE but instead is available for future-oriented embedded systems such as Windows 10 and Windows 10 IoT.
WinCE Support	Yes	No
Win10 IoT supp.	No	Yes
Openness	Movicon™ 11 is completely based on XML. Projects are simple XML files that can be opened and edited using other Editors as well. Third party objects and components such as ActiveX and OCX can also be integrated. Is not based on .NET but is able to support .NET third part libraries as .NET Assembly.	Movicon.NEXt projects are also based on XML technology but they can also be based on SQL Server DB. Movicon.NEXt is based on the Automation Platform.NEXt, a suite with “Plug-In” concepts to enable maximum system interoperability that allows integration of third party functional modules within the Progea Framework such as User Controls and .NET objects.

Standards	All the standard technologies, like XML, ODBC, OPC UA, VBA, Web Services and SQL technologies are built-in the platform to ensure easy data access and transparency.	All the future-oriented standards are supported. The XAML and WPF technologies ensure the most efficient and modern graphics standards. The historian technologies are based on ADO.NET and they support any other Relational DB type or the Azure Cloud technology with transparency. The project files are based on the XML standard. Script is based on VB.NET standard. The OPC UA technology is native to Automation Platform.NEXT.
OPC UA	Yes, for the PC with both Client and Server. For WinCE only as Client.	Yes, in a native way, for both Client and Server. The Server is OPC UA Certified. The complete information model of the platform is based on OPC UA.
OPC DA (Classic)	Yes, for the PC with both Client and Server. For WinCE only as Client.	No
Graphics	Movicon™ 11 offers a vector graphics engine based on SVG (Scalable Vectorial Graphics). Graphics are independent from screen resolution sizes and support multitouch through gestures interpretation.	The Movicon.NExT graphic engine is based on WPF and completely supports XAML graphics. It comes integrated with exclusive new generation libraries that support graphics in 2D and 3D. Multi-touch is native to Movicon.NExT with the option to manipulate each individual object as desired
Libraries	Standard and classic vectorial symbol's library (Symbol Factory).	The Movicon.NExT symbol's library is a new generation of symbols, designed on XAML to support all the new outstanding graphic's qualities. Support of XAML styles.
Historicals	Movicon™ 11 uses the ODBC connections to manage – in automatic and transparent way – the data recording on every Relational DB. It supports also IMDB (inMemoryDB) to record data on memory and save them to XAML file (with encryption).	Movicon.NExT™ uses the ADO.NET technology to manage – in automatic and transparent way – the data recording on every relational database, with both model Historian or Data Loggers. The default configuration is for SQL Server. It support also the Cloud (Microsoft Azure).

Data Recording Models	Data Loggers	Data Loggers and Historian
Reports	Movicon™ 11 offer as integrated a powerful Report Designer, to design and present any kind of local reports. Web Report are not supported.	Movicon.NExT™ offer as integrated a new enhanced version of Report Designer, .NET based, to design and present any kind of local and web reports. Reports are supported even on web through HTML5.
Connectivity	More over the OPC technology, Movicon™ 11 offers a complete library complete with native communication I/O drivers. The drivers include features such as automatic Tag importing, remote connectivity via modem, the multi-station concept for point-to-point protocols, the bridging concept for teleservice in PLCs. The drivers ensure full configurability and the option to customize on event communication. The SDK C++ and the “Shared Memory” driver ensure openness to enable you to create your own drivers autonomously.	More over the OPC UA technology, Movicon.NExT™ offers a complete library complete with native communication I/O drivers. The drivers include features such as automatic Tag importing, remote connectivity via modem, the multi-station concept. The Gateway function offer the capability to connect the same Tag to different devices at the same time. The drivers ensure full configurability and the option to customize on event communication. The SDK .NET ensure openness to enable you to create your own drivers autonomously.
Mission Critical	Movicon™ 11 integrates redundancy functions to ensure continuous running times in any condition using “Mission Critical” applications with primary server and secondary server. High performing Hot backup of dynamic data and historicals in automatic mode.	Movicon.NExT integrates a new redundancy concept based on ‘server array’ and load balancing to ensure continuous ‘Mission Critical’ application runtimes in all type of conditions. It also provides high performing Hot backup of dynamic data and historicals in automatic mode.
GeoScada	This is not supported natively but can be implemented by using third party ActiveX.	Native GeoScada: integration with cartographics and geographical map systems consent specific screens, dynamic objects or projects to be defined with geographical co-ordinates in order to display them dynamically on maps in order to view the points and information desired. This geographical map system will greatly facilitate navigating and zooming information distributed over large areas and diverse territory. These maps are brilliant for

		displaying the operating status of localized projects as well as enabling immediate geographical collocation of information and navigability, including geo-groups or objects dynamically geo-referenced.
Scripts and Languages	Movicon 11 offer the following embedded languages: VBA/VB.NET IL (Instruction Logic) Synopsis	Movicon.NEXt offer the following embedded languages: VB.NET FBD Logic (Function Block Diagram)
Security	Proprietary User/Password Management, and support to Windows Active Directory. Audit Trail Support. CFR21 Part 11 Support.	User/Password Management based on ASP.NET Memberships (default: SQL DB), and support to Windows Active Directory. Audit Trail Support. CFR21 Part 11 Support.
IIoT Support	No	Yes
Augmented Reality	No	Yes, with HoloLens and Smartglass

When should Movicon 11 be used?

Movicon 11 is a modern Scada/HMI software platform that incorporates the many years of experience Progea has gained in the international market. The openness, robustness and flexible technology of Movicon 11 makes it the perfect choice for any automation need may it be small HMI systems or big supervision servers for process and control or infrastructures. Movicon 11 is based on the current and modern technologies in line with those technologies used by all major competitors. It is for this reason that Movicon 11 will remain active in the product line and it will be regularly updated (Movicon 11.5 version will be released soon) and it will continuously be supported both as client and server.

Target Movicon 11 applications

Movicon 11 is targeted at all automation applications, whether it be for small and big projects, mission critical solutions or supervision and remote control in any automation and building automation sector. Small HMI, productivity line Supervisors, client-server applications, distributed and modular products, web oriented applications, data collection on DB and analytical reports, OEM and any other automation need.

When should Movicon.NExT be used?

Movicon.NExT is a completely new generation platform, totally rewritten and redesigned to adopt the most cutting edge and innovative technologies, such as the new Microsoft.NET WPF and OPC UA technologies, without compromise. It is a new generation platform based on innovative concepts and it does not in no way whatsoever replace the Movicon11 technology which will remain in production for a long while yet.

Target Movicon.NExT applications

Automation Platform.NExT is ideal for those who need to create projects that can be used on a long term basis. Therefore this means projects which are developed by investing in new and emerging technologies. These are usually Supervision projects designed for network or stand-alone architectures that involve deploying applications based on the new interaction and multi-touch concepts which incorporate the use of graphics that are superior in quality and include the option to use 3D as required.

- Applications for Telemetry or Remote Control (GeoScada)
- Applications for Augmented Reality.
- Applications for Plant Intelligence and Energy Efficiency.

Visit the website:

<http://www.progea.com>

Movicon.NEXT™ e Platform.NEXT™ are software technologies entirely developed, produced and distributed by Progea

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