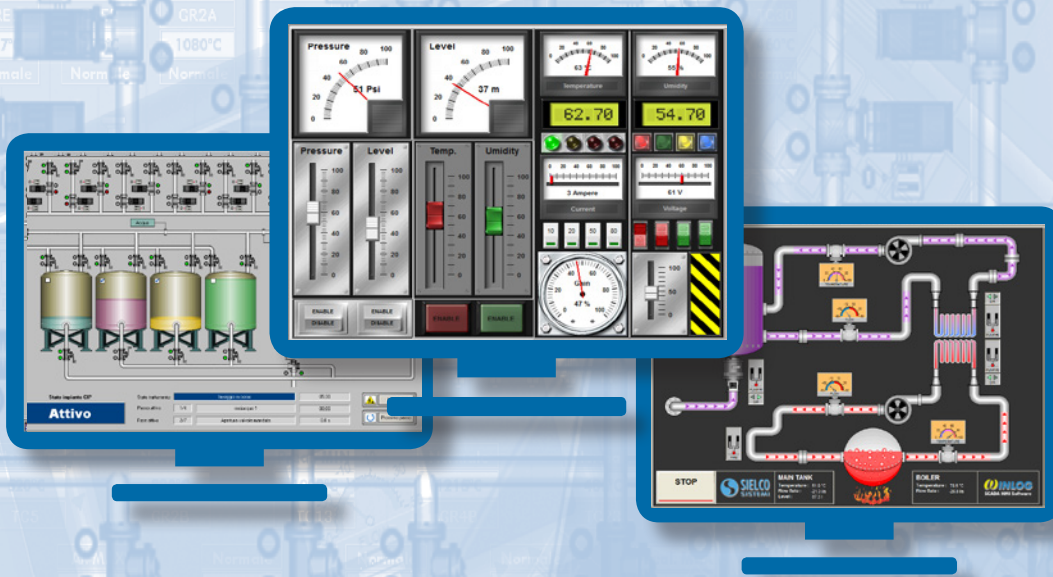




WINLOG 4.0

EVO



SCADA HMI SOFTWARE

GENERAL DESCRIPTION

Winlog Evo is a flexible, convenient and easy-to-use software package for the development of multi-language SCADA/HMI applications. Winlog Evo is the most advanced version of Winlog SCADA, more suited for Industry 4.0 applications. Development tools include the libraries Symbol Factory (static graphic symbols) and Industrial Gadgets ActiveX (animated graphic objects). It supports most popular communication protocols (Siemens, Omron, Allen Bradley, Modbus RTU/TCP, KNX, BACnet, etc.) and provides OPC interfaces DA and UA (Client and Server). It allows you to manage process recipes and to generate reports in both pdf and csv formats. It provides an interface with external DB (MySQL, ...) to record data (datalogger function) or directly access data through API. The "SecureBridge" function allows the remote user to directly operate on the PLC linked to the SCADA. Winlog makes it possible to set up distributed Client/Server architectures and create web applications accessible from smartphone or browser.

MAIN FEATURES

- MULTI-LANGUAGE SCADA/HMI APPLICATIONS
- ACCESS FROM SMARTPHONE OR BROWSER
- THOUSANDS OF SYMBOLS AND ANIMATED OBJECTS
- MOST POPULAR COMMUNICATION PROTOCOLS
- OPC DA AND OPC UA (CLIENT AND SERVER)
- GRAPHIC TRENDS AND ALARM HISTORY FILES
- PROCESS RECIPES AND PRODUCTION REPORTS
- INTERFACE WITH EXTERNAL DBMS (MYSQL, ...)
- SECUREBRIDGE FOR REMOTE ACCESS TO THE PLC



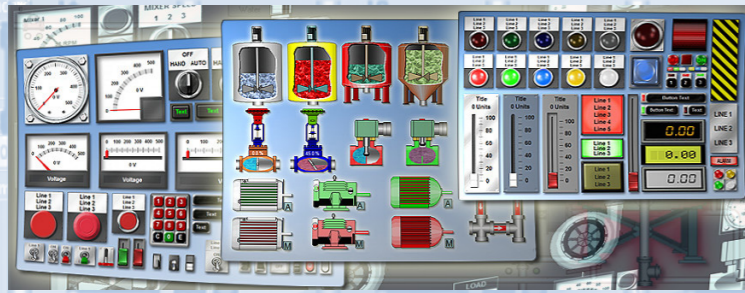
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OVERVIEW

GRAPHIC LIBRARIES



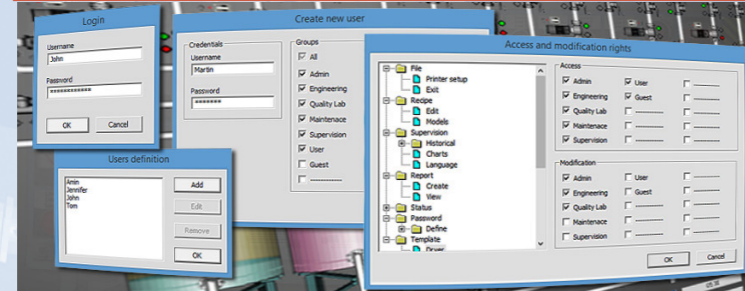
Development tools include Symbol Factory, the popular library of graphic symbols for industrial automation with thousands of objects such as pumps, valves, motors, tanks, PLCs, piping, ISA symbols, etc; an integrated editor allows resizing and changing colour, scheme and orientation of objects (bitmap or metafile). Development tools also include two libraries of animated graphic objects: Industrial Gadgets ActiveX Basic Edition, with animated objects both digital (buttons, switches, leds) and numeric (pointer indicators, potentiometers, led displays) and Industrial Gadgets ActiveX PRO Edition, with complex animated objects such as motors, pumps, valves, tanks, pipes.

CLIENT/SERVER ARCHITECTURES & WEB SERVER SUPPORT



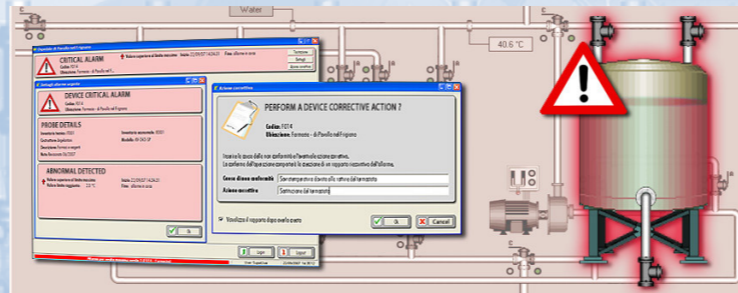
Distributed Client/Server architectures can be set up on Intranet/Internet networks; several Winlog applications installed on remote stations can communicate to each other via a TCP/IP protocol. Multi-master structures can be defined so as to allow both reading and writing between the various stations. It is also possible to create supervisory applications with a Web Server support, hence accessible from Internet Clients with a simple browser. Two different solutions are provided to access the Server application: Web Client solution to access the Server application from desktops supporting HTML5 technology, and Smart Client solution to access the Server application from Smartphones and Tablets equipped with iOS or Android.

SECURITY



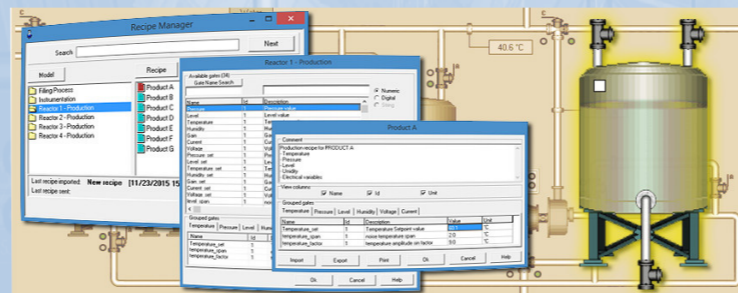
It is possible to protect each menu item, each template, each variable, by defining the groups of operators enabled to access and those enabled to modify; and you can thus create an unlimited number of operators by assigning them a name, a password and one or more groups to which they belong. All operator actions that caused a data change are recorded in a history file with date, time, description and name of the operator. This allows to trace the causes of any irregularities in the operation of the system due to an operator action. The continuity of operation of the Winlog application is ensured by a separate and application-independent watch dog process.

EVENTS & ALARMS



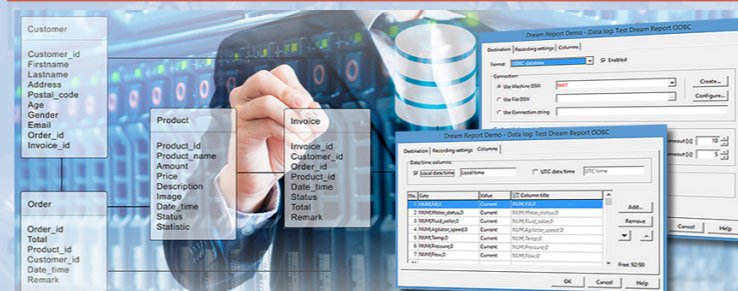
Events and alarms are special gates which assume the value of "active" or "inactive" depending on the value assumed by a reference variable. The activation of an alarm is promptly notified on a reserved area of the display. You can access online information (active event, not acknowledged events, ...) and historical information (event start, event end, ...) on the basis of several freely assignable classes (priority, location, competence, ...). When an event occurs, in addition to the date and time, you can also record the values of a set of associated variables, in order to provide a picture of the state of the system at the time of the event. Simple code routines allow sending Emails or SMS as a particular event occurs.

RECIPES



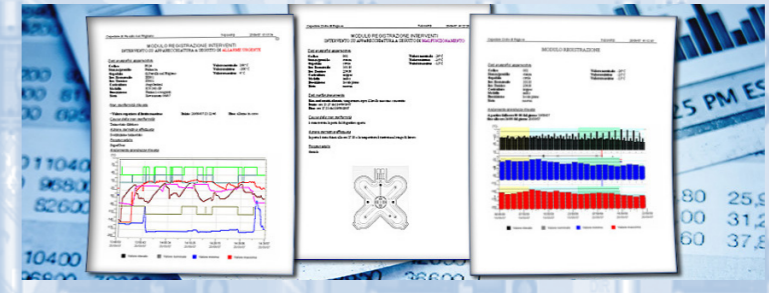
Recipes are sets of values that characterize a particular manufacturing process or a specific machine setting. You can create different recipe models, each of which is made up of a set of process variables (gates); each set can in turn be organized into several groups on which to perform common actions. The recipe model serves as a reference model for creating multiple recipes, each of which is made up of the set of values assigned to the process variables defined in the recipe model. You can create, rename or delete both recipes and recipe models. You can also create new recipes by importing values directly from the process. You can send a recipe to the process manually (on operator request) or automatically (on software start-up), or following a trigger condition (e.g. in batch processes).

INTERFACE WITH EXTERNAL DBMS



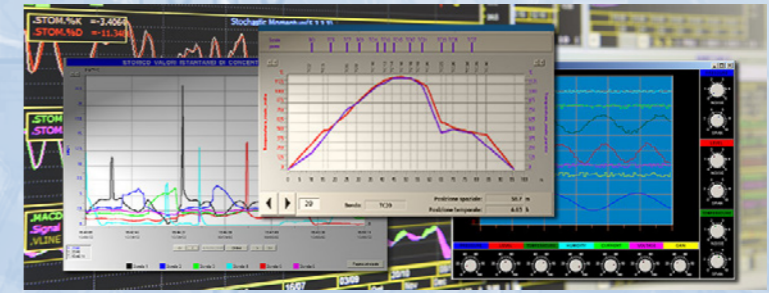
The "datalogger" function allows you to develop applications able to interface with any external DBMS accessible via ODBC (Mysql, ...), in order to record data tables. Thanks to a series of instructions (API) provided by the internal code, you can also interface the external DBMS through generic queries (SELECT, INSERT, UPDATE, ...) and read the results usable by the internal code routines. You can also directly interface with the external DBMS through the ODBC Client protocol.

REPORTS



Reports consist of a set of historical data to be directly reviewed by production and maintenance managers or to be imported and reprocessed by other Windows applications. In the first case, reports are explanatory documents that describe the manufacturing process over a period of time (eg production batch), drawn up in a predefined format and available as pdf files. In the second case, reports are data tables recorded as CSV files. Each row includes date, time and the values assumed by a set of variables. Rows can be recorded at fixed intervals or when a specific condition occurs (trigger).

GRAPHIC TRENDS



Graphic trends provide a graphic representation of the trend over time of the recorded variables. It is possible to display simultaneously up to 10 trends relating to different variables, each with its own colour and scale. Various display options are available for graphic trends (grid, line thickness, type of interpolation), backgrounds (colour, font) and positioning of the various elements (legend, buttons, cursor coordinates). It is possible to shift backwards and forwards the time axis, change the scale, zoom the image or display the values of all plotted variables according to the time coordinate.

REMOTE MAINTENANCE SECUREBRIDGE



Secure Bridge is an innovative remote maintenance tool that allows the developer to connect and operate remotely on the customer's local machine, using a series of TCP protocol services such as RDP, HTTP, FTP, VNC, PLC tunnel, ... Thanks to SecureBridge the remote developer can open sessions of Remote Desktop, modification of Web pages or remote programming of devices (PLC, instruments, drives, ...) without having a direct connection (fixed IP, DNS or other). It doesn't require modification of firewalls, nor a particular configuration of the Virtual Server.

SCADA HMI SOFTWARE

TOOLS



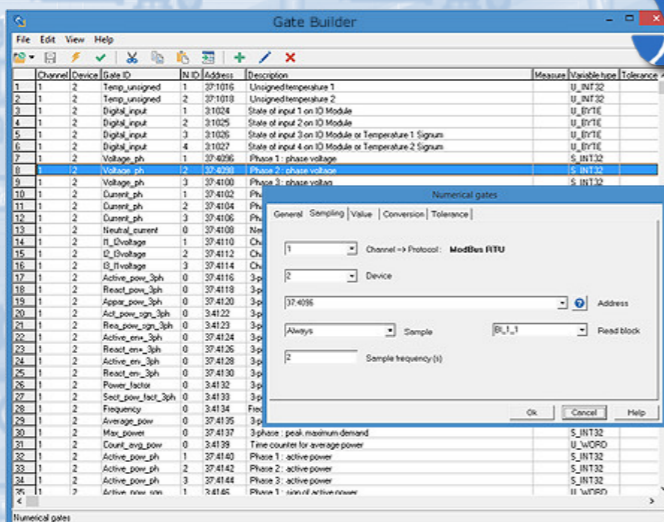
PROJECT MANAGER



Project Manager is the integrated development environment that makes available different tools (Gate Builder, Template Builder, Code Builder, Application Builder) for the easy and intuitive creation of any Winlog application.

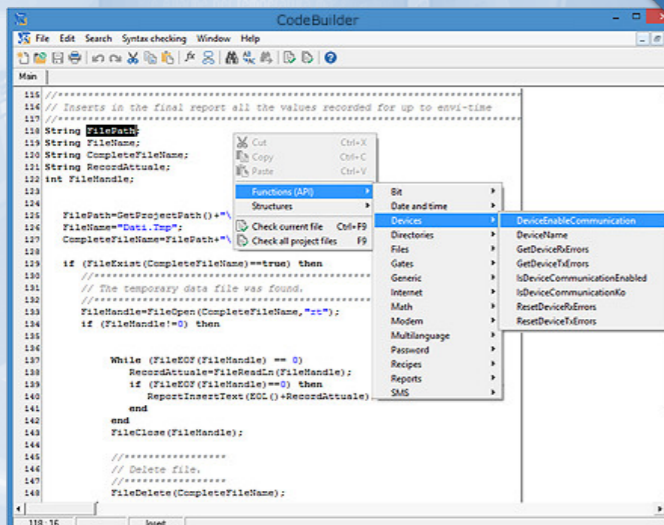


GATE BUILDER



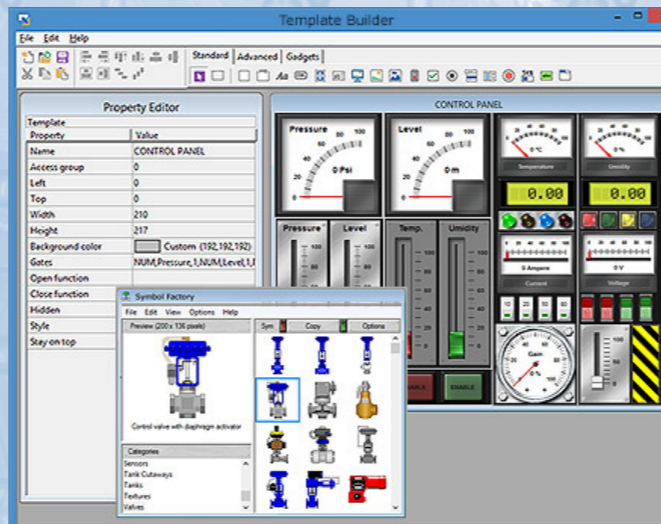
Gate Builder is a tool for creating and managing the gates (tags) database. You can define different types of gates (numeric, digital, string, compound, event, alarm) and assign the related properties (name, description, address, measurement unit, scale factor). Gates can be external (sampled from field devices such as PLCs, controllers, etc.) or internal. The sampling method can be configured for each gate or set of gates in order to obtain a satisfactory update frequency without using too much disk memory.

CODE BUILDER



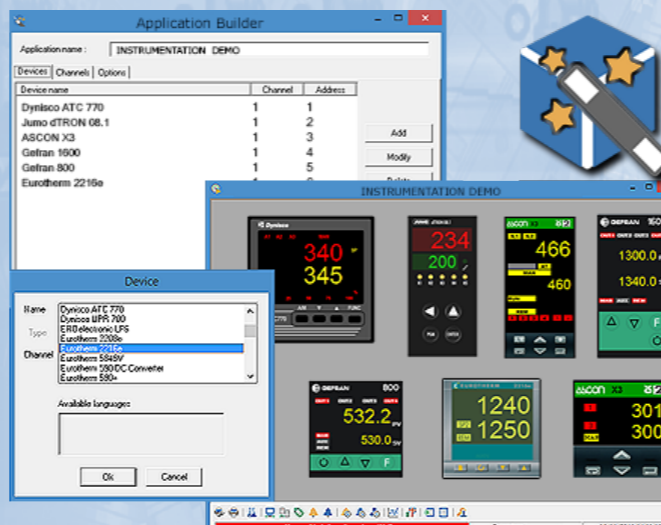
Code Builder is the integrated development environment that gives the possibility to enrich and customize the application; a simple C-like programming language allows the programmer to interact with all the components of Winlog Pro (tags, templates, recipes, reports, etc.), to define loops or "if-then-else" conditions, to create functions (Macro) that can be executed automatically or under operator control. The editor allows you to easily recall all the functions and language structures and insert them into the project, checking the correctness of the syntax.

TEMPLATE BUILDER



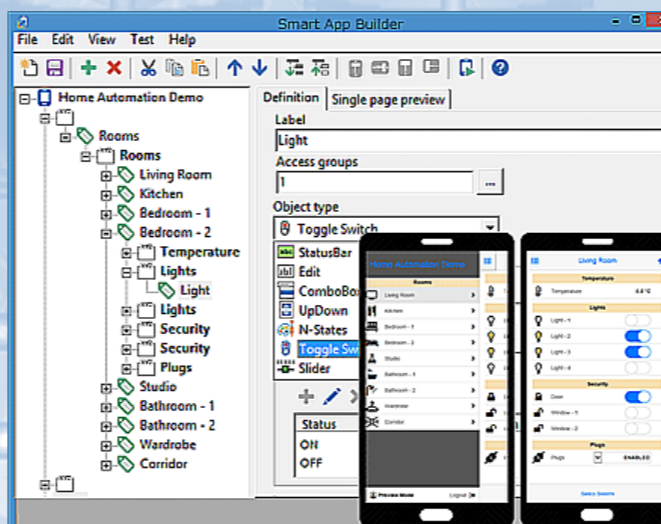
Template Builder is the tool for an easy and intuitive creation of templates and display pages; all you have to do to build a template is to place on the screen the objects (bitmaps, metafiles, text, values, status bars, leds and control icons) and to define their properties (dimensions, styles, associated tags, etc.). Each object of the template can be assigned a control that allows access only to the class of operators with a specific password level. Template Builder includes Symbol Factory, the popular library with thousands of symbols (pumps, valves, motors, tanks, PLCs, piping, ISA symbols), and Industrial Gadgets ActiveX, the graphical library with lots of animated objects: digital (buttons, switches, led), numeric (pointer indicators, potentiometers, led displays) and complex (motors, pumps, valves, tanks, pipes).

APPLICATION BUILDER



Application Builder is a powerful tool that allows the automatic creation of SCADA applications, resulting in a dramatic reduction of development time. You can create a software application by simply taking up from a library and putting together predefined software objects relating to automation devices from various manufacturers or even entire functional blocks. In addition to tags and protocols, software objects may include supervisory and configuration templates (front panel, trends, etc.) and a list of events and alarms with the relevant management procedures. If the software objects were created using the multi-language option, the final application will also be automatically created in multi-language mode.

SMART APP BUILDER

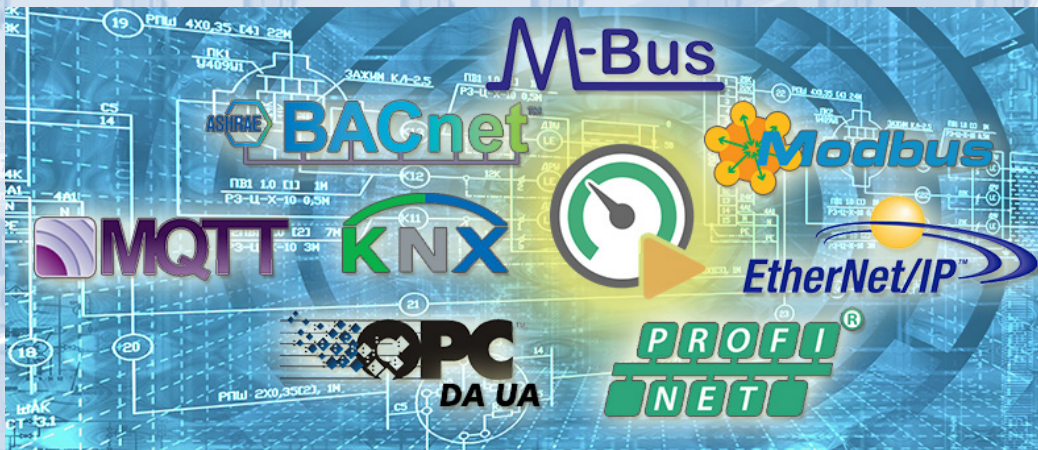


Smart App Builder is the visual development tool for the quick creation of web applications (Smart Apps) suited for mobile devices (iOS and Android) and able to interact with the Server application to monitor and modify the values of the variables of the supervisory process (SCADA). After defining the project variables, you can assign each of them a category and the display mode (item). For each item, you can define a series of standard graphical controls including: Label, StatusBar, Bitmap UpDown, Edit Box, Slider, Combo Box, N-States Box, Switch. The final structure of a Smart App is represented by a menu consisting of the categories with the relevant items and sub-items; navigation is the typical one used in all the most popular mobile devices.

SCADA HMI SOFTWARE



COMMUNICATION PROTOCOLS



Thanks to a large library of communication drivers included in the basic package, Winlog Evo allows you to interface with most electronic instruments, such as PLCs, multimeters or I / O modules. The driver library includes the most popular communication protocols, both on serial (Modbus RTU, PPI / MPI, DF1, FA link, SUCOM-A, M-Bus, MEWTOCOL-COM, Computer Link FX, KNX / EIB, Host Link , S-BUS, ...), and on Ethernet (Modbus TCP, Ethernet-IP PCCC, BACnet, MELSEC, FINS, MQTT, Profinet, ...). Also included in the basic package are the OPC Client DA and OPC Client UA drivers, which support data access to OPC Server DA and OPC Server UA. The connectivity of Winlog Evo with MES and ERP company systems is guaranteed through the integrated OPC UA server.

LICENSES

Winlog Evo licenses are supplied with a case containing a protection key for USB port.

- The development license allows the creation of any application and its execution for testing purposes for a time of 2 hours.
- Runtime licenses allow the execution and modification of applications (EDITOR)

MAX SAMPLED VARIABLES	DEVELOPMENT LICENSE (with limited RUNTIME)	RUNTIME LICENSE (with EDITOR)
32 TAG	-----	W-EVO/RTA-USB
64 TAG	-----	W-EVO/RTB-USB
128 TAG	-----	W-EVO/RTC-USB
256 TAG	-----	W-EVO/RTD-USB
512 TAG	-----	W-EVO/RTE-USB
1024 TAG	-----	W-EVO/RTF-USB
2048 TAG	-----	W-EVO/RTG-USB
4096 TAG	-----	W-EVO/RTH-USB
8192 TAG	-----	W-EVO/RTI-USB
65536 TAG	W-EVO/DVX-USB	W-EVO/RTX-USB



SYSTEM REQUIREMENTS

Microsoft Operative Systems

- Windows 10 (32/64 bit)
- Windows 8.1 (32/64 bit)
- Windows 8 (32/64 bit)
- Windows 7 (32/64 bit)
- Windows Embedded 7
- Windows Server 2016
- Windows Server 2012
- Windows Server 2008

One USB port for the protection key

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SIELCO SISTEMI srl

I-22070 GUANZATE (CO)

Via Roma, 24

Tel +39 031 899671

Fax +39 031 976966

<http://www.sielcosistemi.com>

info@sielcosistemi.com