

Thank you for purchasing or evaluating this software.  
This document contains information about version 11.2 of the Supervisor.

- What's new in version 11.2? - An overview of the main new features
- System requirements
- Installation

See the Release Notes for more information about software changes since version 11.1, in particular a list of modifications and known issues.

## What's new in version 11.2?

This section lists all major new features and enhancements in version 11.2.

| General  | End-user | Designer |
|--|----------|----------|
| <b>BACnet</b><br>The Supervisor now complies with the B-OWS and B-AWS profiles. All the necessary BIBBS are supported for: <ul style="list-style-type: none"><li>• Data Sharing,</li><li>• Network &amp; Device management,</li><li>• Alarm &amp; Event notification,</li><li>• Trending and event logging,</li><li>• Scheduling.</li></ul> Evolutions include: <ul style="list-style-type: none"><li>• Device and object discovery,</li><li>• Versatile support for BACnet automation objects: Notification Class, Trend Log, Trend Log Multiple, Event Log, Schedule, Calendar,</li><li>• Helpers to assist the application developer diagnose and troubleshoot automation objects' behavior in a BACnet device,</li><li>• A comprehensive mapping editor.</li></ul> | X        | X        |
| <b>Enhancements to BACnet schedules management</b><br>BACnet objects of type Schedules & Calendars can now be configured using the Application Explorer, including the ability to change the schedule outputs.   | X        | X        |
| <b>Enhancements to the WebScheduler</b><br>The WebScheduler now takes advantage of the BACnet Schedules and Calendars built-in configuration. Setting-up the WebScheduler for BACnet is now much easier.<br>It also enforces the Supervisor built-in user rights for timetables when a user accesses a BACnet Schedule or Calendar.  | X        | X        |

|   |   |   |
|---|---|---|
| <p><b>Deployment as a Windows service</b></p> <p>The main process of the Supervisor, including Sv32.exe and Hds.exe, can now be deployed and run as a desktop application for operator stations, or as a Windows service for server stations.</p> <p>This new capability comes with a long list of evolutions including:</p> <ul style="list-style-type: none"> <li>• 2 new Windows Services named svCoreDaemon and svCoreSessionHost,</li> <li>• The new SV Core Management Console for admin users dedicated to changing the execution mode,</li> <li>• Log Monitor - A new tool able to display logging and tracing information of interest to administrators,</li> <li>• Registration of the new services with the Windows Service Control Manager are handled by the installation and the Component Registration Utility.</li> </ul> <p>The SV Core Management Console can be used to switch from one mode of execution to the other when required for configuration or diagnosis. It includes in particular the ability to set:</p> <ul style="list-style-type: none"> <li>• Supervisor start up arguments: Project name, version management...,</li> <li>• Service account configuration, in particular for DCOM related system settings.</li> </ul> | X | X |
| <p><b>IEC 60870-5-104 outstation</b></p> <p>The Supervisor is now able to expose any variable via a built-in IEC 104 server. This new feature enables the use of the Supervisor as a substation gateway, including support for redundancy.</p>  | X | X |
| <p><b>Data Export</b></p> <p>Data Export can now export as a Csv file in addition to Microsoft Excel workbook.</p>  | X |   |
| <p><b>WebVue</b></p> <p>WebVue can now be deployed using the Java Web Start technology which allows launching a Java Applet as a desktop application outside the Web browser.</p>   | X |   |
| <p><b>Licensing</b></p> <p>New license size: 25 000 I/O.</p> <p>Contact your local reseller for more information.</p>   | X |   |
| <p><b>New Add-ons</b></p> <ul style="list-style-type: none"> <li>• KNX Data Acquisition driver,</li> <li>• SNMP Agent.</li> </ul> <p>Contact your local reseller for more information and availability.</p>   | X | X |
| Microsoft® SQL Server 2014 SP1 support.   | X | X |
| Microsoft® Windows 10 support.  | X | X |
| 500+ fixes and enhancements.  | X | X |

| HMI  | End-user | Designer |
|--|----------|----------|
| <p>In addition to the Variable Tracking mode, the Grid control now supports a Historical mode that can be used to display trend data:</p> <ul style="list-style-type: none"> <li>Filtering based on time period or variable selection,</li> <li>A new set of SCADA Basic instructions,</li> <li>Color changes based on thresholds and quality,</li> <li>Export of the displayed data to Excel or Csv files.</li> </ul> | X        | X        |
| Tooltips are available for all types of animations.  | X        |          |
| Enable/Disable of control zone highlight.  | X        |          |
| The handling of mouse clicks for sending commands via animations, including opening context mimics, is now fully configurable: Left click, middle click, right click, with or without key modifiers such as Alt, Shift, Ctrl ...   | X        |          |
| The SCADA Basic script called on mimic open can now be configured as part of the mimic properties.   |          | X        |
| Improvements to the Map Control: Zooming, Marker editor, Symbol thumbnails...  | X        | X        |

| Scripting  | End-user | Designer |
|--|----------|----------|
| SCADA Basic  |          |          |
| <p>New SCADA Basic verbs:</p> <ul style="list-style-type: none"> <li>File handling: FMOVE, FCOPY,</li> <li>String Handling: ADDSTRING, REPLACE.</li> </ul>   |          | X        |
| <p>SCADA Basic verbs with new modes:</p> <ul style="list-style-type: none"> <li>ALARM, ALARMDISPLAY, BACNET, CHECKLIST, COMBOBOX, LISTBOX, LOGDISPLAY, MAPDISPLAY, OPTIONLIST, TREEVIEW, TREND, SNMP, WINDOW.</li> </ul> |          | X        |

| Data Acquisition   | End-user | Designer |
|--|----------|----------|
| BACnet™ driver major enhancements.   | X        | X        |
| <p>Updated drivers:</p> <ul style="list-style-type: none"> <li>IP-ISO-S7,</li> <li>IP-MELSEC,</li> <li>PUP,</li> <li>OpenWebNet,</li> <li>SNMP Manager.</li> </ul> | X        |          |

| Configuration environment  | End-user | Designer |
|--|----------|----------|
| <p>Configuration and diagnosis tools including the Application Explorer, the Application Architect and Smart Generators, now require user authentication to connect to the Supervisor.</p> <p>If both process run in the same Windows user session, a single sign-on procedure is in place.</p>  |          | X        |
| <p><b>Application Explorer</b></p> <ul style="list-style-type: none"> <li>• Major enhancements to the BACnet data acquisition driver configuration, including automation objects, mapping and troubleshooting,</li> <li>• Configuration of Associated labels,</li> <li>• IEC 104 outstation configuration.</li> </ul>  |          | X        |
| <p><b>Application Architect</b></p> <ul style="list-style-type: none"> <li>• Symbol and mimic thumbnails - It is now possible to display thumbnails for symbols and mimics associated with templates and instances.</li> <li>• Templates documentation - Each template can now include documentation.<br/>A new tab is available for embedding formatted text. The text is saved as part of the template definition and can be used both for project documentation purpose, and as help for those in charge of instantiating templates.</li> <li>• Support for more communication items: DNP3, IEC 104 client and OPC client.</li> <li>• Previous/Next navigation.</li> <li>• Performance improvements.</li> </ul> |          | X        |
| <p><b>Updated Smart Generators</b></p> <ul style="list-style-type: none"> <li>• Smart Generator for BACnet™ in order to comply with newly supported objects and services,</li> <li>• Smart Generator for FactoryLink - Support for Modbus XIP import,</li> <li>• Smart Generator for SAIA, TwinCAT, XML Generic Import.</li> </ul>   |          | X        |

# System requirements

## Operating Systems

Only operating systems from the Microsoft® families of Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012 and Windows Server 2012 R2 are supported.

### Supported and operational:

- Windows Vista with SP2 - Business, Enterprise and Ultimate Editions
- Windows 7 with SP1 - Professional, Enterprise and Ultimate Editions
- Windows 8 - Professional and Enterprise Editions
- Windows 8.1 - Professional and Enterprise Editions
- Windows 10 - Professional and Enterprise Editions
- Windows Server 2008 with SP2 - Web, Standard, Enterprise and Datacenter Editions
- Windows Server 2008 R2 with SP1 - Web, Standard, Enterprise and Datacenter Editions
- Windows Server 2012 - Foundation, Essentials, Standard and Datacenter Editions
- Windows Server 2012 R2 - Foundation, Essentials, Standard and Datacenter Editions
- Windows Server 2016 - Essentials, Standard and Datacenter Editions

### Operational but may have limitations in use:

Please contact your technical support before using any of these:

- Windows Server for Embedded Systems and all other Embedded systems
- Any operating systems hosted in a system virtual machine such as Microsoft® Windows Virtual PC, Hyper-V, VMWare®...

### NOT supported:

- All other Editions of Windows Vista, Windows 7, Windows 8, Windows 8.1 and Windows 10
- Windows RT
- Windows Server 2008 and 2008 R2 for Itanium-based systems
- Windows Embedded Compact 7 and 2013

For all operational editions of Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows 10 and Windows Server 2008, both 32-bit (x86) and 64-bit (x64) processor architectures are supported.

For all platforms, we recommend that you apply any critical updates available from the Windows Update website to ensure the best compatibility and security. Installation of the latest Windows Service Pack may be required on some operating systems.

For any other Microsoft® operating system, please contact your Technical Support.

## Browser

### Required:

- Microsoft® Internet Explorer version 9 or later

## Microsoft® SQL Server

Using the HDS for database archiving with the Supervisor requires one of the following SQL Server versions:

- Microsoft® SQL Server 2008
- Microsoft® SQL Server 2008 R2
- Microsoft® SQL Server 2012
- Microsoft® SQL Server 2014
- Microsoft® SQL Server 2016

For each of these, the following editions can be used - Express, Workgroup, Web, Standard, Business Intelligence, Enterprise, Datacenter - depending on your needs and their specific constraints.

Microsoft® SQL Server 2014 does not support Windows Vista.

### Recommended MINIMUM PC configuration

- Processor - 1.0 GHz for 32-bit systems (x86) or 1.4 GHz for 64-bit systems (x64)
- System Memory\* – 2 GB of RAM
- Available hard disk space – at least 2 GB
- Graphics - Super VGA (1024 × 768 pixels) for Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2 and Windows Server 2016. For Windows Vista, Windows 7, Windows 8, Windows 8.1 and Windows 10, support for DirectX 9 graphics device with WDDM driver
- DVD-ROM drive - Required for installation only

\*If you are using SQL Server, additional memory may be required. See the following topic in the online help for more information: [Overview of SQL Server Express Edition](#).

\*If you are using RDS (Remote Desktop Services, formerly Terminal Services), please contact your Technical Support for advice about memory requirements.

The above figures represent the minimum requirements. For advice on specific applications please contact your Technical Support.

For information about the Microsoft® Windows user privileges required to install and run the Supervisor see the following topic in the online help: [Overview of the Supervisor and Windows user rights](#).

## Installation

See the Installation help for more information and help about pre-requisites and the installation process itself.

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