

This document contains information about version 15:

- [What's new in 15.0](#) - An overview of the main new features in version 15 Initial Release (15.0.0)
- [What's new in 15.1](#) - An overview of the main new features in the 15.1 Feature Release (15.1.0)
- [What's new in 15.2](#) - An overview of the main new features in the 15.2 Feature Release (15.2.0)
- [System requirements](#)
- [Installation](#)

See the Release Notes for more information about software enhancements since version 12, in particular a list of changes and known issues.

What's new in 15.0

General	End-user	Designer
<p>Geolocation & Micro-Geolocation</p> <p>Based on the configuration of zones, actions and geo-tags, this new module provides users with patented location-based and proximity-aware services, both indoor and outdoor. Depending on the type of system you monitor & control, zones can be a geographical or logical breakdown of your installations, a real-world location such as a remote site, or a piece of equipment in a factory.</p> <p>The following types of geo-tags are supported:</p> <ul style="list-style-type: none">• Geolocation - GPS® for location-based services• Micro-Geolocation - NFC tags, QR codes®, Bluetooth® beacons and Wi-Fi® access points for proximity-aware services <p>Patent number: US9819509B2</p>	X	X
<p>SnapVue mobile app</p> <p>SnapVue is designed for context-based monitoring & control of nearby assets. It takes advantage of the Geolocation and Instant Messaging services provided by your server to present relevant information to mobile users:</p> <ul style="list-style-type: none">• Connect to and access data from multiple servers• Information, alarms, commands and set-points are displayed according to the user context: Location, proximity and permissions.• Logged events and trends• Access to external resources such as documents and web pages• Data filtering based on user profile• Built-in Instant Messaging• User tracking	X	

General	End-user	Designer
<p>Enhancements to the TouchVue mobile app</p> <p>Improvements of the user interface, support for iOS and iPadOS. This version also includes enhancements related to the handling of alarm updates and behavior when running in background.</p>	X	
<p>Instant Messaging</p> <p>A built-in Instant Messaging system you can deploy on your segmented industrial network - No dependency to any third-party service requiring Internet access. It offers users of the desktop application, FrontVue and the SnapVue mobile app the ability to chat together. Users keep themselves in the loop for better effectiveness and team performances.</p> <p>Main features:</p> <ul style="list-style-type: none"> • Chat • Exchange text and voice messages • Send and receive images and videos 	X	X
<p>Sql data acquisition driver</p> <p>Built on top of the Sql connection management introduced with version 12, the Sql data acquisition driver allows you to map variables onto results of predefined Sql queries. It is designed to make it easy to interface with Enterprise systems. Use cases include retrieving data from an ERP, CMMS, MES, Metering systems... Variables can be updated cyclically or on event. No scripting required.</p>		X
<p>Logging & tracing - Syslog support</p> <p>For activity monitoring purpose, this interface allows you to send selected events to IT log aggregators. Designed to fulfill the most challenging security requirements, it supports the RFC 5424 and RFC 3164, in addition to RFC 5426 (UDP), RFC 6587 (TCP) and RFC 5425 (TLS).</p> <p>Improvements of logged events, in particular to better trace user account administration and project/lib version central management.</p>	X	X

General	End-user	Designer
<p>Version control</p> <ul style="list-style-type: none"> • New system variables to monitor if a new version of the project or libraries are available. This makes it easy to generate an alarm to the operator if a restart is required • New standard action to open the central project management on a function key • Project & Lib versions with 3 figures to accommodate a lifecycle policy including 3 stages: Major versions, minor versions and patch • New command line argument <code>-d proj=x.y.z lib=t.u.v</code> to start a specific version • New status PREREF – Between DEV and REF in the life cycle of a project or library. It is designed to identify a version under validation tests before being deployed in production • New command line argument <code>-preref</code> to start the PREREF version 	X	X
<p>WebVue</p> <p>Several fixes and enhancements including:</p> <ul style="list-style-type: none"> • Support for Security animations • Support for mimic tabs • Support for included mimics and popup behavior • Performance improvements 	X	X
<p>WebScheduler</p> <p>Support for Sofrel timetables.</p>	X	X
<p>Licensing</p> <p>In addition to USB hardware dongles, license protection based on a software key is now available.</p>	X	X
<p>Performances</p> <ul style="list-style-type: none"> • The responsiveness of the web services is improved, with a positive impact on the user experience in WebVue, the WebScheduler and Mobile Apps. • Improved time to calculate population-based filters. 	X	X

General	End-user	Designer
New and updated Add-ons <ul style="list-style-type: none"> • MQTT pub/sub - A new Add-on that implements the MQTT standard and can be used as an MQTT subscriber and as an MQTT publisher. <ul style="list-style-type: none"> ▪ The MQTT subscriber allows you to collect data from MQTT-enabled devices and take advantage of the software for alarming, trending, logging and HMI. ▪ The MQTT publisher offers you the possibility to distribute information with the many additional metadata and qualifiers not readily available at the sensor level. • LoRa Gateway interface - Support for redundancy. 	X	X
Microsoft® SQL Server 2019 support.	X	X
500+ fixes and enhancements.	X	X

HMI	End-user	Designer
Instance selector New selector to insert symbols in mimics by selecting instances designed with the Application Architect rather than searching through libraries of symbols and setting the branch manually.		X
Tree-view control Support for icon customization. To support this feature, a selector is also available so that you can pre-define the list of useful icons to be used in the project, as you do with the color palette.	X	X
Pie control The pie control can now be configured to take advantage of real time data. Scripting was required in earlier versions.		X
Alarm & Log viewers A new context menu is available. It is highly configurable at design-time, and as the toolbar, it offers run time users most of the useful commands in a single place: <ul style="list-style-type: none"> • Generic commands: Print... • Commands on alarms: Acknowledgment, Masking... • Filter changes • Commands useful in the context such as actions associated to the selected alarm 	X	X
Trend viewer Support up to 100 trends	X	

HMI	End-user	Designer
Replay module Enhancements to the VCR feature: <ul style="list-style-type: none"> • Automatic synchronization of historical data when opening the player • Ability to move backward in time • Tuning of the playback speed • Timeline to make it easy to figure out which time slot is being replayed. The cursor allows jumping from a time slot to another one in a single click 	X	

Scripting	End-user	Designer
New SCADA Basic instructions <ul style="list-style-type: none"> • Management of zones and geolocation features - Instruction GeoLocation • Instant Messaging and chat room handling - Instruction InstantMessaging 		X

Data acquisition	End-user	Designer
New drivers <ul style="list-style-type: none"> • MQTT pub/sub Add-on • Sql data acquisition driver 	X	X
Updated drivers <ul style="list-style-type: none"> • BACnet client - Support for static binding • OPC XML - Http basic authentication • IEC 104 client - Robustness improvement • IEC 61850 client - Robustness improvement 	X	X

Configuration & Diagnostic environment	End-user	Designer
<p>Application Explorer</p> <p>The following elements can now be configured using the Application Explorer:</p> <ul style="list-style-type: none"> • Geolocation back end • Geographical data: Zones, Actions and Geo-tags • Instant Messaging back end • Predefined Sql queries <p>Enhancements:</p> <ul style="list-style-type: none"> • Equipment data acquisition - Display of status and error codes of networks, nodes and frames • Networking - Display of connection status and license-related information. New commands are also available on stations and nodes to control connections when advanced diagnostics are necessary. These commands are equivalent to some of the modes of the LAN instruction in SCADA Basic scripting. • Improved user interface to select time duration for all settings and properties such as polling periods, timeouts... 		X
<p>Application Architect</p> <ul style="list-style-type: none"> • Modeling of Geographical data - Zones, Actions and Geo-tags • Ability to reset all properties of a given category at once • The need to set a value for a parameter at instantiation time can now be defined as optional, recommended or mandatory by the template designer 		X

Deployment	End-user	Designer
<p>Web Deployment Console</p> <p>The Web Deployment Console now includes the configuration of:</p> <ul style="list-style-type: none"> • The Geolocation and Instant Messaging back ends • The corresponding web services <p>Other changes includes:</p> <ul style="list-style-type: none"> • A web site can now be configured with multiple bindings to support deployment scenarios requiring a web or mobile app to access the web server with a different Url/certificate depending on the network it connects from. • Client-side settings can now be pre-defined at deployment time and enforced by the server, including the <i>Remember me</i> setting. <p>An Import feature is now available. Used in conjunction with the pre-existing Export feature, it will help you migrate to version 15 or set-up a new server without losing your deployment settings.</p>	X	X

Features in preview	End-user	Designer
<p>Smart Bot (preview for testing)</p> <p>Designed as a plug-in on the Instant Messaging infrastructure, the Smart Bot helps users follow operational and maintenance procedures.</p> <p>This feature is in Preview for testing. You must run the installation package in mode Custom to install it. Please contact us if interested.</p>	-	-
<p>Notification Publisher (preview for testing)</p> <p>A module designed to support the Push Notification technology.</p> <p>This feature is in Preview for testing. You must run the installation package in mode Custom to install it. Please contact us if interested.</p>	-	-

What's new in 15.1

General	End-user	Designer
ICCP/TASE.2 interface New interface based on the IEC 60870-6, the standard for data exchange between control centers.	X	X
Predefined Sql queries Support for the concept of scope to control the distribution of Sql query results across user sessions. It allows shared data to be processed in any user context, and prevents user-specific data to be accessible to other user sessions.		X
Xml file references In addition to Excel files available since version 12, it is now possible to reference Xml files that are used throughout the project, in particular in configuration modeling with the Application Architect. The support for Xml file references comes with a new expression function <code>XmlGetValue()</code> . It helps the application designer looking up Xml fragments based on XPath queries.		X
170+ fixes and enhancements.	X	X

Data acquisition	End-user	Designer
New drivers <ul style="list-style-type: none"> IEC 60870-5-101 client - This new driver operates in unbalanced mode over TCP or UDP and is designed to support legacy IEC 101 devices accessed through serial-to-IP gateways Client Ad-Net - Support communication with Mx series fire detection panels. 	X	X
Updated drivers <ul style="list-style-type: none"> IEC 61850 client - Support for offline configuration and mapping based on SCL files Sql data acquisition driver - Support for mapping of the quality property 		X

Scripting	End-user	Designer
New SCADA Basic instructions <ul style="list-style-type: none"> Communication control for the IEC 60870-5-101 and IEC 60870-5-104 driver - Instruction <code>M60870_5</code> 		X

What's new in 15.2

General	End-user	Designer
<p>Expressions on text variables</p> <p>String-based expressions are now supported throughout the product, including expressions on variables with a result variable of type Text, expression templates and animations on a text value.</p>		X
<p>Predefined Sql write queries</p> <p>In addition to Sql read queries, it is now possible to predefine Sql write queries. They are designed to handle commands for variables mapped onto the Sql driver.</p>		X
<p>New action Open chat</p> <p>The new action allows opening a chat room with SnapVue according to the geolocation of the user.</p>	X	
<p>New tile type in SnapVue</p> <p>In SnapVue, the image on a tile can now be dynamically changed according to the value of a Register variable.</p>	X	
<p>Instant Messaging</p> <p>Improved responsiveness.</p>	X	
<p>New and updated Add-ons</p> <ul style="list-style-type: none"> • OPC-UA Gateway version 1.5.7 	X	X
140+ fixes and enhancements.	X	X

Data acquisition	End-user	Designer
<p>New drivers</p> <ul style="list-style-type: none"> • Omron FINS - Support communication with Omron FINS PLC over TCP. • Modbus RTU over IP - Support communication with PLCs requiring the use of Modbus RTU payloads over a TCP connection. 	X	X
<p>Updated drivers</p> <ul style="list-style-type: none"> • Sql data acquisition driver - Support for commands. • Sql data acquisition driver - Improvement to triggers, upon completion of a query, it is now possible to execute a secondary query. 		X

HMI	End-user	Designer
Library updates HVAC, Pipes and Arrows.		X
Alarm & Log viewers Support for large toolbars to make it easier to use the viewers when using a touch screen. A large toolbar was already available for the Trend viewer.	X	

Configuration & Diagnostic environment	End-user	Designer
Application Architect Mapping of variables onto the Sql data acquisition driver.		X

Features in preview	End-user	Designer
Smart Bot (preview for testing) New triggers are available, as well as new conditional operations and a new set of instructions to find user-related information such as finding a user with certain permissions in a given area. This feature is in Preview for testing. You must run the installation package in mode Custom to install it. Please contact us if interested.	-	-

System requirements

Operating Systems

Only operating systems from the Microsoft® families of Windows 7, Windows 8.1, Windows 10, Windows 11, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019 and Windows Server 2022 are supported.

We recommend you to use Windows Client versions for operator stations and Windows Server versions for server stations.

Supported and operational

- Windows 7 with SP1 - Professional, Enterprise and Ultimate Editions
- Windows 8.1 - Professional and Enterprise Editions
- Windows 10 version 1607 or later - Professional and Enterprise Editions
- Windows 11 - Professional and Enterprise 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
- Windows Server 2019 - Essentials, Standard and Datacenter Editions
- Windows Server 2022 - Essentials, Standard and Datacenter Editions(*)

(*) Supported and operational since Maintenance Release 15.2.2.

All operational versions of Windows Server shall be installed with the 'Desktop Experience' option.

Operational but may have limitations in use

Please contact your technical support before using:

- Windows 10 IoT Enterprise LTSC 2016 or later, Windows Server IoT 2019, Windows Server for Embedded Systems and all other embedded systems
- Any operating systems hosted in a system virtual machine such as Microsoft® Hyper-V and VMWare® virtualization products

NOT supported

- All other versions of Windows 7, Windows 8.1, Windows 10 and Windows 11 - In particular Windows 10 version 1507 (RTM) and 1511 (Nov 2015 update) are not supported
- Windows 8
- Windows RT
- Windows 10 IoT Core, Windows Embedded Compact 7 and 2013
- Windows Server installation in Nano Server or Server Core mode

For all operational versions of Windows 7, Windows 8.1, Windows 10 and Windows Server 2008, only the x64 processor architecture is supported.

The software requires .NET Framework 4.8. It cannot run on an operating system if .NET Framework 4.8 is not preinstalled or cannot be installed separately.

For all platforms, we recommend that you apply any critical updates available from the Windows Update web site. 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.

Please note that we plan to end support for the following versions of Windows with the next version of our products (next Initial Release):

- Windows 7
- Windows 8.1
- Windows Server 2008 R2
- Windows Server 2012
- Windows Server 2012 R2

WebVue & WebScheduler - Supported Web browsers

The list of supported web browsers is:

Desktop web browsers:

- Google Chrome™ 46 and later
- Mozilla Firefox™ 45 and later
- Microsoft Edge™ 38.14393 and later
- Apple Safari® for MacOS® 10.5 and later

Mobile web browsers:

- Google Chrome™ for Android™ 46 and later
- Apple Safari® for iOS™ 10 and later
- Android WebView™ 5 and later

TouchVue & SnapVue - Supported Mobile operating systems

At the time of writing, the list of supported platforms for the TouchVue and SnapVue mobile apps is:

- Android™ 5.0 to 10 (RAM 2 Gb minimum)
- iOS™ 11.4 to 13 & iPadOS™ 13

TouchVue and SnapVue are available on Google Play™ and the App Store.

Please refer to the relevant store to check compatibility with your mobile device.

Please note that we plan to end support for the following mobile operating systems for the TouchVue and SnapVue apps at the time of General availability of the next version of our products (next Initial Release):

- All Android™ versions up to 8.1 (included)
- All iOS™ and iPadOS™ versions up to 14 (included)

Microsoft® SQL Server

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

- SQL Server 2008 R2
- SQL Server 2012
- SQL Server 2014
- SQL Server 2016
- SQL Server 2017
- SQL Server 2019

Depending on your needs and their specific constraints, any of the following editions can be used for each of the above: Express, Workgroup, Web, Standard, Business Intelligence, Enterprise and Datacenter.

SQL Server administration requires Microsoft® SQL Server Management Studio. For more information and download, refer to <https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms>

Please note that we plan to end support for the following versions of SQL Server with the next version of our products (next Initial Release):

- SQL Server 2008 R2
- SQL Server 2012

Recommended MINIMUM PC configuration

- Processor - x64-compatible AMD or Intel CPU (or equivalent) - 1.4 GHz dual core minimum.
- System Memory(*) - 4 GB of RAM.
- Storage - At least 10 GB.
- Graphics - 1024×768 display for Windows Server platforms. In addition for Windows Client platforms, support for DirectX 9 graphics device with WDDM driver.
- Network Interface Card - At least 1.
- Drives - A DVD drive, as appropriate, is required for installation from disc. An available USB port is required if you use a hardware protection dongle.

(*) If you are using SQL Server, additional memory may be required. See the following topic in the online help for more information: Microsoft SQL Server related considerations.

(*) If you are using RDS (Remote Desktop Services) or IIS (web server), please contact Technical Support for advice about memory requirements.

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

Installation

For information about the Microsoft® Windows user privileges required to install and run the Supervisor, see the following topic in the online help: Operating system related considerations.

See the Installation help for more information and help about prerequisites and the installation process itself.

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