

This document contains information about version 15:

- What's new in version 15 - An overview of the main new features
- 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 version 15

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 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 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. 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 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 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). 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 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 Support for Sofrel timetables.</p>	X	X
<p>Licensing 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
<p>New and updated Add-ons</p> <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 facet allows you to collect data from MQTT-enabled devices and take advantage of the software for alarming, trending, logging and HMI. The MQTT publisher facet 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
<p>Instance selector</p> <p>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.</p>		X
<p>Tree-view control</p> <p>Support for icon customization.</p> <p>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.</p>	X	X
<p>Pie control</p> <p>The pie control can now be configured to take advantage of real time data. Scripting was required in earlier versions.</p>		X
<p>Alarm & Log viewers</p> <p>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:</p> <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

HMI	End-user	Designer
Trend viewer Support up to 100 trends	X	
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 - GeoLocation • Instant Messaging and chat room handling - InstantMessaging 		X

Data acquisition	End-user	Designer
New drivers <ul style="list-style-type: none"> • MQTT pub/sub Add-on • Sql data acquisition driver 		
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>	-	-

System requirements

Operating Systems

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

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 and Windows 10 - 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 Windows 7 and Windows Server 2008 R2 SP1 have reached their end of life. It is planned to end support for these operating systems with the next version of our products.

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

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

Microsoft® SQL Server

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

- Microsoft® SQL Server 2008 R2
- Microsoft® SQL Server 2012
- Microsoft® SQL Server 2014
- Microsoft® SQL Server 2016
- Microsoft® SQL Server 2017
- Microsoft® 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>

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.
- Available hard disk space - 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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