

This document contains information about version 16:

- **What's new in 16.0** - An overview of the main new features in version 16 Initial Release (16.0.0)
- **What's new in 16.1** - An overview of the main new features in the 16.1 Feature Release (16.1.0)
- **What's new in 16.2** - An overview of the main new features in the 16.2 Feature Release (16.2.0)
- **System requirements**
- **Installation**

What's new in 16.0

Featured **Smart bots - Digital assistance**

Smart Bots helps users follow operational and maintenance procedures based on no-code workflows that you have defined with a visual programming tool. Users can interact with a bot in SnapVue and in the desktop Instant Messaging client, and task completion is reported automatically.

Key use cases:

- Application forms
- Job orders
- Field service management
- On-site inspections
- Smart assistants

The Smart Bot feature was available in preview since version 15.

Featured **BIMOps - A BIM platform for operations**

Support for integration of BIM data into the project. This new feature includes the ability to render and animate Ifc-based models to help users navigate and interact with the 3D model, locate alarms, and access information based on the references and geometry of a BIM model.

Key features:

- BIM graphic control for rendering Ifc-based models
- Configuration editor to define groups of Ifc objects, color animations and mimic links
- SCADA Basic scripting with the new instruction **BIMDISPLAY**

Featured Video-protection - ONVIF camera support

Support for integration of ONVIF cameras, including AV streaming and camera control. ONVIF cameras are pre-defined with the Application Explorer as part of the Security devices configuration. AV streams can then be displayed at runtime with the ONVIF control, including camera PTZ commands and stream control (resolution, volume, etc.).

Key features:

- Support for ONVIF Profile S cameras
- Security device configuration in the Application Explorer
- ONVIF graphic control and camera command animation
- Preset management
- Guard tour mode
- Capture snapshots
- SCADA Basic scripting with the new instruction **CAMERADISPLAY**

This new feature also comes with a generic video control designed to:

- View and control an RTSP AV stream
- Play AV files (mpeg, avi, etc.)
- Capture snapshots
- SCADA Basic scripting with the new instruction **VIDEODISPLAY**.

Data acquisition drivers

- **Featured** OPC UA client (new) - Data Access services. Support for data acquisition server redundancy and OPC UA server redundancy.
- Honeywell Galaxy SIA (new) - Supports the Galaxy Dimension and Galaxy Flex systems (intrusion detection and access control)
- Omron FINS Ip (new) - For communication with OMRON PLCs
- OCPP (new) - Support for versions 1.6 and 2.0.1 of the OCPP specifications to monitor and control EV charge points. Includes a library of ready-made templates.

Configuration & Diagnostics

Application Explorer:

- **Featured** Re-designed configuration for Equipment data acquisition drivers
They can now be configured using the Application Explorer and modelled using the Application Architect - Network, devices and frames.
To make life easier, drivers are now categorized by **Type** (Serial, Tcp/Ip, etc.) and **Manufacturer**, and legacy drivers are only displayed after the activation of a global setting.
- Certificates management for OPC UA

Application Architect:

- Import/export of templates and parameters

Libraries:

- New library for PV plant monitoring

WebVue - Several fixes and enhancements including:

- Support for the Map control

Geolocation

- A zone and its actions can now be displayed in SnapVue even if it is not associated to any geo-tag. This makes perfect sticky zones users can always access for actions of general interest such as displaying a production line status of energy dashboard.
- Local chat rooms to make chatting easy to users located in the same zone.

HMI

- **Featured** Web browser control - A new built-in graphic control to display web content and Pdf files in a mimic. SCADA Basic scripting with the new instruction **WEBBROWSER**.

Installation and deployment

- Support for Microsoft® Windows 11 and Windows Server 2022.
- Support for Microsoft® SQL Server 2022.
- Silent installation - You can now take advantage of the silent install capabilities to automate the installation and the update of the product.

Performances

- Improvements to the mimic rendering performances of WebVue.

Add-ons and tools

- OPC UA Gateway 1.5.11 (updated)
- Dream Report 2023 (updated)

Features in preview

Notification Publisher (preview for testing) - A module designed to support the Push Notification technology. This feature is in Preview for testing. You must run the installation package in mode Custom to install it. Please contact us if interested.

What's new in 16.1

Featured Grid control - Support for extended attributes

Extended attributes can be displayed as columns in the Grid control when using the variable tracking mode. Depending on the configuration of the Grid control and user permissions, the value of Extended attributes can also be changed directly from the Grid. The same goes for the Simulated property of variables.

Featured Central project management

Tags can now be associated to versions of your project and libraries, and you can start your project based on a tag instead of a version identifier or state. With version tagging, the application designer can skip the use of the built-in versioning state machine. And by controlling project startup based on tags, the designer drives the version loading and can apply a versioning policy even if the built-in state machine do not completely fit.

Smart bots - Digital assistance

Smart bot workflows can now interface with O365 calendars to manage tasks and find the most suitable team mate according to availability and occupation for task assignment. The Smart bot plug-in now also implements a Web API client so that you can interface with Web Server endpoints as part of your workflows: Telegram, Line, REST API, CMMS API...

Configuration & Diagnostics

Application Explorer:

- **Featured** The Mapping dialog for Equipment data acquisition drivers can now be used to map variables on frames' sub-addresses, making it easier to map data structures onto a series of variables of diverse types using a single frame. For example, you can now use the Mapping dialog to map Register and Bit variables onto the same Word or Double word frame. The drivers' runtime already supported this feature, but it required changing the mapping configuration manually.
- The labels used to designate extended attributes can now be fully customized. Customized labels are then used everywhere extended attributes are displayed.

Data acquisition drivers

- OPC UA client - Support for method calls. A new Helper is available at design time to test method calls, and the SCADA Basic instruction OPCUA has a new mode called METHOD able to perform method calls.
- PIMA (new) - Supports the PIMA IPGuard Receiver software (intrusion detection).
- SATEC (new) - Supports Satec PM130 devices, in particular the PM130P, PM130E and PM130EH series (power meters).
- SNMP Manager - An extension to the driver enables mapping variables onto tabular OIDs of varying length, typically to manage dynamic lists of events or alarms.

Add-ons and tools

- OPC UA Gateway 1.5.14 (updated)
- Dream Report 2023 Patch1 (updated)

Features in preview

Notification Publisher (preview for testing) - A module designed to support the Push Notification technology. This feature is in Preview for testing. You must run the installation package in mode Custom to install it. Please contact us if interested.

What's new in 16.2

Featured **Sql grid**

A new built-in graphic control to display data returned by a pre-defined Sql query. The Sql grid control can be scripted using the SCADA Basic instruction **SELECTOR**.

Featured **Sql query wizard**

Sql queries can now be easily configured using a wizard. The wizard is available for SQL Server.

Pdf and Xps Printing

Support for Microsoft Windows Pdf and Xps printers for alarm & log printing.

WebScheduler

Support for adding calendar-based recurring triggers.

HMI

- Support for the visibility animations on more graphic elements, including symbols and most graphic controls.
- Visibility based on zoom levels and layers is now also supported for most graphic controls.
- Command level for the Form controls - Variable command levels and the corresponding user rights can now be enforced when operating a Form control based on variable values.

Configuration & Diagnostics

Application Explorer:

- Improvements of Sql query snippets.

Application Architect:

- Data Export - Data Export configuration elements can now be added to a template, including Trend and Log pages.

SCADA Basic

New instructions:

- **JSONPATH** - To process Json formatted data.
- **FTPS** - To copy a file to or from an FTP server using FTPS.

Smart Bot

New features:

- **Featured** Smart bots can now be typed depending on how you need them to operate:
 - Smart bots designed to interact with users as part of a chat-room.
 - System bots designed to operate in background without user interaction.
 - Assistant bots designed to interact with one or more users in a customized UI on mobile devices.
 - Template bots designed for reusability. They are able to perform predefined operations and are called by other bots with parameters to set the context.
- **Featured** Machine learning - A bot operation to train a machine learning model on the local database using one of the available trainer algorithms.
- Web Hook - A bot condition that allows bots to catch and handle external webhooks.

Data acquisition driver

- **Featured** OCPP - Support for OCPP proxy.
- ICCP - Support for the ICCP security layer.
- OPC UA - Fixes and enhancements.

Security

- HDS - To manage connections to SQL Server databases, the HDS now supports the Microsoft OLE DB Driver for SQL Server (MSOLEDBSQL). The MSOLEDBSQL driver comes with support for TLS to ensure confidentiality and integrity of the data flow to SQL Server.

Features in preview

Notification Publisher (preview for testing) - A module designed to support the Push Notification technology. 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 10, Windows 11, Windows Server 2016, Windows Server 2019 and Windows Server 2022 are supported.

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

Supported and operational

- Windows 10 version 1607 or later - Professional and Enterprise Editions
- Windows 11 - Professional and Enterprise 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

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

Operational but may have limitations in use

Please contact the technical support before using:

- Windows 10 IoT Enterprise LTSC 2016 or later, Windows 11 IoT Enterprise, Windows Server IoT 2019, Windows Server IoT 2022, 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 10 and Windows 11 - In particular Windows 10 version 1507 (RTM) and 1511 (Nov 2015 update) are not supported
- Windows 10 IoT Core
- Windows Server installation in Nano Server or Server Core mode

For all operational versions of Windows 10 and Windows 11, only the x64 processor architecture is supported.

The software requires .NET Framework 4.8 and 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.

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

WebVue & WebScheduler - Supported Web browsers

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™ 9.0 onward (RAM 2 Gb minimum)
- iOS™ 15 onward & iPadOS™ 13 onward

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.

Microsoft® SQL Server

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

- SQL Server 2014
- SQL Server 2016
- SQL Server 2017
- SQL Server 2019
- SQL Server 2022

The HDS supports the following OLE DB drivers from Microsoft:

- MSOLEDBSQL up to version 18 included (recommended)
- SQLOLEDB

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/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 (project and archive data not included).
- 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 the Technical Support for advice about memory requirements.

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

Installation

For information about the Microsoft® Windows user privileges required to install and run the product, 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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