

PCVUE 16 RELEASE NOTES

➤ SUMMARY:

This document contains information about changes in PcVue 16. It includes information up to Maintenance Release 16.3.6.

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1. Maintenance Release 16.3.6 (16.3.06901)

1. Fixes

Database Manager - Connection failure (SPR #76794, PCV-2044) Under some circumstances, connection to a SQL Server instance could fail with error 'Keyword not supported' or 'Invalid value for keyword Encrypt'. The issue was related to the handling of the property <i>Encrypt</i> of the connection string.	Add-ons and Tools
Duplicated spontaneous messages (SPR #74473, PCV-2241) Under some circumstances, when the IEC 104 outstation interface is exposed by more than one station in an association, all stations in the association would send spontaneous message. With this fix, only the active server station of the association sends spontaneous messages.	Communication interfaces > IEC 60870-5-104 Outstation
Deadlock with the Xml Generic Import (SPR #76125, PCV-1581, 2887) A dead lock could occur when importing a large number of trend configuration elements. The issue manifested itself with a freeze during Application Architect generation or synchronization, while using a Smart Generator or the Xml Generic Import directly with the XmlImporter.exe command line. A forced exit of Sv32.exe occurred after the 10-minute watchdog timeout.	Configuration Environments Also in: 17.0.0
Memory leak with Trend log (PCV-2306) A memory leak occurred when retrieving Trend log data.	Data Acquisition > BACnet Client Also in: 17.0.0
Galaxy SIA driver - Zone details frame (SPR #76075, PCV-1412) Under some circumstances, a Zone details frame was not correctly polled after activating alarm polling. The issue only occurred with specific device models such as the Galaxy 520E.	Data Acquisition > Other built-in drivers Also in: 17.0.0
Fatal error with refresh (SPR #76139) A fatal error of the data acquisition server occurred when using the instruction SNMP mode REFRESH.	Data Acquisition > SNMP Manager Also in: 17.0.0
Log export issues with comma in Description (SPR #76556, PCV-1149) Logged events were not correctly exported when the value of a requested <i>Description</i> contained a comma.	Data Export Also in: 17.0.0
HDS connection failure (SPR #76792, PCV-2109, 2234, 2383) Under some circumstances, HDS connection to a SQL Server instance could fail at startup with error 'Keyword not supported' or 'Invalid value for keyword Encrypt'. In such a case, the connection could succeed if using the <i>Test</i> button in the Application Explorer, and could also succeed when using third-party client tools, based on a .udl file to store a similar connection string for example. The issue was related to the handling of the property <i>Encrypt</i> of the connection string.	Historical data
Built-in message boxes not displayed (PCV-2742) Under some circumstances, when mimics containing a large number of graphical elements were open, built-in message boxes would fail to open (including command confirmation, interlock conditions, missing permission dialog...).	HMI
Potential fatal errors (PCV-2876, 2919, 2923, 2924, 2925, 2950) Fixed a series of potential fatal errors related to repainting, resources clean-up on mimic close and variable subscription handling. Some errors could only occur when the <i>Optimized rendering</i> was enabled in the HMI options.	HMI
Visibility animation not saved (PCV-2232) A visibility animation on a Alarm viewer was not saved properly if the mimic was saved in Ascii format.	HMI > Alarm viewer Also in: 17.0.0
Comment as tooltip with Color on bit group animation (PCV-2221) Using the <i>Comment</i> property as tooltip did not work with the <i>Color on bit group</i> animation.	HMI > Animations Also in: 17.0.0
Fatal error with the preview (PCV-2921) A fatal error occurred with the Data Export Wizard when previewing sampled export if the row timestamp column was not selected.	HMI > Data Export Wizard

Memory leak (SPR #76480, PCV-412) A memory leak occurred when using the Data export wizard from the Trend viewer and the Grid control.	HMI > Data Export Wizard
Memory leak with mode Sql (PCV-2284) A significant memory leak occurred when using the Grid control in mode Sql.	HMI > Grid control Also in: 17.0.0
Visibility animation not saved (PCV-2279) A visibility animation on a Log viewer was not saved properly if the mimic was saved in Ascii format.	HMI > Log viewer Also in: 17.0.0
Visibility animation not saved (PCV-2289) A visibility animation on a Trend viewer was not saved properly if the mimic was saved in Ascii format.	HMI > Trend viewer
Fatal error on server switchover (PCV-2767) Under some circumstances, a fatal error occurred upon switchover. The issue only occurred if the association contained more than 2 servers and produced at least 1 I/O variable.	Networking
<i>Upgrade</i> Instruction BUFTOFILE - Extra character (PCV-2791) Removed a null extra character erroneously added at the end of the buffer when executing the BUFTOFILE instruction. The issue was a regression introduced in 16.1.0.	Scripting > SCADA Basic
<i>Upgrade</i> Instruction CIMWAY mode SENDMSG - Inverted return value (PCV-2257) Fixed inverted return value. Now returns 1 if successful and 0 in case of error as documented. Since 16.0.0, the return value was inverted, the instruction returned 0 if successful and 1 in case of error.	Scripting > SCADA Basic Also in: 17.0.0
Fatal error due to popup mimics (SPR #76525, 76523) Under some circumstances, a fatal error could occur on the Web backend due to the handling of popup mimics.	Web Server Extensions > WebVue Also in: 17.0.0
Filter button not displayed (PCV-2771) Under some circumstances, the filter button was not displayed in the toolbar of an Alarm or Log viewer.	Web Server Extensions > WebVue Also in: 17.0.0
Form controls - Content update (PCV-2419) The content of a form control was not updated if the update occurred while a modal mimic was open on top.	Web Server Extensions > WebVue
List-box Form control - Several fixes & enhancements (PCV-2420, 2421, 2440, 2446) The list of fixes & enhancements includes: - If the file name for the list-box content was defined by a Text variable, the list of items was not refreshed upon a value change of the Text variable. - The SCADA Basic instruction LISTBOX mode COUNT always returned the number of items at the time of mimic opening (as opposed to the current number of items). - If there was only a single item in the list-box, each character of the item was displayed as an entry in the list-box. - Fixed an unhandled exception if loading an empty file.	Web Server Extensions > WebVue
Map tiles not loaded in the Map control in WebVue (SPR #76731, PCV-2228) Following the security fixes described in SB2026-2, the map tiles are no longer loaded when using the Map control in WebVue. The issue only occurred when loading tiles from a third-party provider over Https. It was a known issue since 16.3.4.	Web Server Extensions > WebVue Also in: 17.0.0
Mimic window moved (SPR #76765, PCV-1998) After clicking the resize icon, a mimic window would wrongly follow the cursor and be moved across the viewport.	Web Server Extensions > WebVue
Trend viewer - Legend scrollbar not visible (PCV-2681) Under some circumstances, when the height of a Trend viewer was too small, the scroll bar in the legend area would become invisible. A compact scrollbar is now displayed in such a case.	Web Server Extensions > WebVue

Trend viewer - Scale too large (PCV-2680, 2682)

The scale axis of a Trend viewer was too large when used in WebVue.
The issue was a regression introduced in 16.3.5 and 17.0.0.

Web Server Extensions
> WebVue

2. Critical fixes

HDS database - SQL authentication option not saved properly (SPR #75841, PCV-1117, 2219)

When configuring the connection string for an SQL Server database, the option SQL authentication was not saved properly.
Upon restarting the project, the connection string was improperly set with Windows authentication, potentially leading to connection failures.

Historical data
Also in: 17.0.0

Border rendering inverted (PCV-2509)

The rendering of the border of a drawing element was inverted between *Relief* and *Inverse relief*.
The issue was a regression introduced in 16.3.5.

HMI
Also in: 17.0.0

Variable substitution and expression in symbols (PCV-2773)

Under some circumstances, the rendering of an animation at runtime could be incorrect if based on an expression taking advantage of substituted variables. The animation could reflect a value that did not match the actual values of substituted variables.
The issue was a regression introduced in 16.3.2 and 17.0.0.

HMI > Symbols

Database creation failure

Fixed failure to create the database as part of the Create database from Historical data operation.
The issue was a regression introduced in 16.3.3.

Instant Messaging > Smart Bot
Also in: 17.0.0

Could not display mimic or symbol (PCV-2393)

It was no longer possible to display a mimic or a symbol in SnapVue and TouchVue.
This issue was a regression introduced in 16.3.

SnapVue
Also in: 17.0.0

3. Enhancements

EtherNET/IP driver - Support for system variables (SPR #76488, PCV-1538)

It is now possible to monitor the status of the devices via system variables.

Add-ons and Tools

New property for timestamp recording (SPR #73992, PCV-1145)

Added property *Use local timestamp upon reconnection*. If enabled, a variable update is processed upon reconnection even if the value and timestamp received from the server device did not change during the disconnection.

Data Acquisition > IEC 61850 Client

Galaxy SIA driver - Several fixes & enhancements (SPR #76075, 76053, PCV-1412, 2256, 2428, 2764)

The list of fixes & enhancements includes:

- Improved TCP server lifecycle and reconnection handling.
- Support for six-digit accounts and panel-specific frame ranges.
- Added handling of fragmented, batched, short, unknown, and unsupported SIA events.
- Improved event mapping, status parsing, diagnostics, and compatibility.
- Support for Galaxy 520E panels.

Data Acquisition > Other built-in drivers

Support for recent MySQL ODBC driver (SPR #76582, 75168, 72258)

Fixes & enhancements to support MySQL ODBC driver version 8+:

- Reviewed Sql transaction logic to work around the lack of support for some Sql constructs.
- Changes to datetime data handling to adapt to MySQL ODBC driver specifics.
- Changes to work around the lack of support for types wchar and wstring in MySQL driver's Unicode implementation.

Historical data
Also in: 17.0.0

Support for the TSType property (PCV-2215)

The *TSType* property can now be used in a Sql filter.

HMI > Alarm viewer

Upgrade **Sql request not triggered** (SPR #76739, PCV-2252)

When using the Grid control in mode Sql, the Sql request is now triggered even if the triggering bit is invalid (not yet initialized).
Such request is now triggered with the transition ALL>1 or ALL>0 where it was previously triggered on transition 0>1 or 1>0.

HMI > Grid control

Also in: 17.0.0

Mimic tab rendering (PCV-2679)

Improved mimic tab rendering to better align with mimic design for the PcVue desktop app.

Web Server Extensions

 > **WebVue**

4. Security

SB2026-7 - Vulnerable library updated

Update of the following third-party library:

- expat

See our [Security bulletin](#) for more information.

Communication
interfaces > ICCP

5. Other fixes & enhancements

 SPR #75888, 75968, 76671, 76673

PCV-1129, 1204, 1425, 2236, 2307, 2514, 2640, 2676, 2738, 2772, 2793,
2850, 2931, 2939

 PCV-2755

Also in: 17.0.1

 SPR #73745, 76650, 76745, 76783

PCV-2031, 2112, 2217, 2277

Also in: 17.0.0

2. Maintenance Release 16.3.5 (16.3.05900)

1. New features

Flag display on the timeline (PCV-1534) The Trend viewer now supports the display of flags corresponding to changes of a bit or register variable. A flag is attached to the timeline and displays the label associated with the bit or register value. It is useful to highlight process changes that are helpful for trend analysis, think batch process start or end.	HMI > Trend viewer Also in: 17.0.0
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2. Fixes

IOA configuration verifications (SPR #75658) Several fixes & enhancements related to IOA configuration verifications: - Added warning on duplicate IOA configuration. - Added verification of IOA usage to prevent duplicated regardless of the type. The tuple {Read IOA, Write IOA} must be unique per sector. - Fixed trace if a duplicated sector address is detected. - Fixed sending the quality flag as value when the variable is invalid.	Communication interfaces > IEC 60870-5-104 Outstation Also in: 17.0.0
IdTag variable set to empty value (SPR #76411) Under some circumstances, after having received a StopTransaction request with an empty IdTag, the corresponding variable was wrongly reset.	Communication interfaces > OCPP Also in: 17.0.0
Source encoding for Text variable (SPR #76659) The <i>Source encoding</i> property was missing on a Text variable mapped on an Equipment source.	Configuration Environments > Application Architect Also in: 17.0.0
Notification-class registration not performed (SPR #76463, PCV-1113) Notification-class registration was not performed when starting a device manually for the first time. It was performed correctly when the device was started automatically at project startup.	Data Acquisition > BACnet Client Also in: 17.0.0
Driver Saia S-BUS - Failure to initialize the comm port (SPR #76608, PCV-2119) The serial port initialization failed when using the Saia S-BUS driver. The issue was a regression introduced in 15.2.	Data Acquisition > Other built-in drivers Also in: 17.0.0
Modbus Ip - Wrong polling period displayed (SPR #76559) After a change of the polling period, it was correctly saved and applied, but was not displayed correctly upon re-opening the frame properties dialog box.	Data Acquisition > Other built-in drivers Also in: 17.0.0
Generation failure (SPR #76552, 76542, 76495) The generation <i>By period</i> from the Application Explorer failed if <i>Use reference timestamp</i> was not selected. Start time, end time and reference time are now initialized to valid values.	Data Export Also in: 17.0.0
Variable linking no longer worked (SPR #76782, PCV-2018) Fix of a regression, variable linking on text properties no longer worked if linked to an expression. It was Ok if linked to a Text variable.	HMI Also in: 17.0.0
Memory leak with Data export wizard (SPR #76480) A memory leak occurred when using the Data export wizard.	HMI > Data Export Wizard Also in: 17.0.0

Parsing issues with comma in Description and Text extended attributes (SPR #76556) Log request responses were not correctly parsed when the value of a requested Description or Text extended attribute contained a comma. The alarm request parsing was Ok.	HMI > Log viewer Also in: 17.0.0
Several fixes & enhancements (SPR #76397, 75964) The list of fixes & enhancements includes: • SPR #76397 - Fixed usage of variable in Color property. • Template bots - Improved parameters handling. • Template bots - Restart parent bot when corresponding template is published. • Template bots - Improved Default value field for parameters. • Scheduler - Store dates in universal format. • Scheduler - Fixed datetime format handling. • SPR #75964 - Allow writing text files using the given path. • The max number of available bots in Demo mode is now 5 (was 2).	Instant Messaging > Smart Bot Also in: 17.0.0
Forced disconnection with large messages (SPR #76669) A client station forced a disconnection upon receiving a message larger than 64 KB from a server station. The connection was automatically re-established after.	Networking Also in: 17.0.0
Alarm viewer filtering (SPR #76551) Several fixes & enhancements of alarm filtering in WebVue: • Improved logic when filtering via the SCADA Basic instruction ALARMDISPLAY in a WebVue context. • Domain and Nature filters, applied by SCADA Basic instruction ALARMDISPLAY or through the runtime filter toolbox can now be combined with a dynamic expression (native or SQL filter). • When a new dynamic expression is applied, it replaces the previous one. • Changing the filter based on Domain or Nature in the Alarm viewer runtime toolbox clears the active dynamic expression. Alarm filtering in an Alarm viewer now behaves in the same way in the desktop client and in WebVue.	Web Server Extensions > WebVue Also in: 17.0.0
Changing layer visibility by script (SPR #76545) Changing the visibility of multiple layers in the same Run macro animation macro or the same SCADA Basic script did not work as expected if called in the context of a WebVue session.	Web Server Extensions > WebVue Also in: 17.0.0
Improved rendering of child mimic (SPR #76670) When a mimic is included in a parent mimic, the scaling ratio of the parent mimic is now applied to the child mimic to ensure they are scaled in the same way.	Web Server Extensions > WebVue Also in: 17.0.0
Log viewer scrolling (SPR #76476) Improved behavior when scrolling down after having reached the end of the list of logged events.	Web Server Extensions > WebVue Also in: 17.0.0
Option-list state change not processed (SPR #72363) Triggering a SCADA Basic script on an option-list control state change no longer worked in WebVue.	Web Server Extensions > WebVue Also in: 17.0.0
Trend viewer - Font too small on 4k screens (SPR #76361) Font size was too small when using a 4k screen with system scaling enabled.	Web Server Extensions > WebVue Also in: 17.0.0
Fatal errors upon CRON Schedule save and delete (SPR #76618, 76555, 76307, PCV-2084) A fatal error occurred when modifying a CRON schedule from the WebScheduler while it is open in PcVue. In addition, a fatal error occurred when deleting a CRON schedule if using the product in a language other than latin.	WebScheduler Also in: 17.0.0

3. Critical fixes

Unintended animation executed on mouse up (SPR #76744, 76743)

Under some circumstances, an animation could be executed without the user directly clicking it.
The issue occurred when releasing the mouse button after using a scroll bar or when selecting an item in a combo-box, if a graphical element with an action animation happened to be under the mouse pointer when the button up event was fired.

Web Server Extensions

> **WebVue**

Also in: 17.0.0

4. Enhancements

Support for multiple commands (PCV-2088)

The IEC 104 outstation now supports processing of multiple commands received from an IEC 104 client in a single packet.

Communication

interfaces > IEC 60870-5-104 Outstation

Also in: 17.0.0

Redundancy support (SPR #76365)

A new property, *AssociationName*, can be specified in the .ini configuration file. This property allows enabling or disabling communication on the passive or active station. Building a redundant architecture requires knowledge of the NLB technology in Windows Server.

Communication

interfaces > OCPP

Also in: 17.0.0

5. Performance

Improved flow regulation defaults (PCV-2070)

Changed default flow regulation thresholds to adapt to typical current host and network resources when transmitting data to a remote station.

Networking

Also in: 17.0.0

6. Installation

Support for Microsoft SQL Server 2025

Added support for SQL Server 2025.

General

Also in: 17.0.0

Support for Microsoft Windows Server 2025

Added support for Windows Server 2025 - Standard and Datacenter Editions.

General

Also in: 17.0.0

7. Security

SB2026-3 - Vulnerable libraries updated

Update of the following third-party libraries:

- expat: Updated from version 2.7.3 to 2.7.4. CVE-2026-24515, CVE-2026-25210.

See our [Security bulletin](#) for more information.

General

Encryption option did not work (PCV-2109)

When using the driver MSOLEDB version 18 for database archiving with the HDS and SQL Server, the value for the *Encrypt* option was not set as expected by the driver and the secure connection would fail.

Historical data

Also in: 17.0.0

8. Other fixes & enhancements

SPR #69480, 76460, 76499, 76550, 76557, 76562, 76591, 76651
PCV-1545, 2074, 2107, 2108

Also in: 17.0.0

3. Maintenance Release 16.3.4 (16.3.04902)

1. Fixes

Several fixes & enhancements (SPR #76306, 76305, 76202, 75676, 75674, 75673, 75672, 75658, 75117, 74892) The list of fixes & enhancements includes: - IOA address change was not taken into account dynamically. - New interop properties to disable Double Point Command Cause of transmission 6 and 10. - Fixed fatal error when using the Application Explorer for IEC 104 outstation configuration. - Improved support for write-only IOA.	Communication interfaces > IEC 60870-5-104 Outstation Also in: 17.0.0
Improved stop sequence (SPR #76464) The driver now waits for COV unsubscriptions to be completed when stopping a device or a network. Added property to configure the max waiting time (default 30 sec).	Data Acquisition > BACnet Client Also in: 17.0.0
Non-admin user access (SPR #76360) When the advanced security strategy was enabled, a non-admin user (level > 0) could open the user accounts dialog box.	General > User management
Grid control in variable tracking mode with context branch (SPR #76187) When a branch was used in the filter, the mimic context branch was not taken into account, causing the grid to appear empty.	HMI > Grid control Also in: 17.0.0
Memory leak (SPR #76544) A memory leak occurred when using the Smart Bot Csv file operations. The issue was a regression introduced in 16.3.3.	Instant Messaging > Smart Bot
Exception not properly handled (SPR #76255) Creating an exception with the WebScheduler did not send proper values to a BACnet device if the time period was in overlap with an interval defined in the standard week.	WebScheduler Also in: 17.0.0

2. Critical fixes

Modbus Ip - Holding register frame not read entirely (SPR #76577) Only variables mapped on the first half of holding register frames were updated properly. The other variables remained invalid. The issue was a regression introduced in 16.3.3.	Data Acquisition > Other built-in drivers Also in: 17.0.0
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3. Enhancements

Several fixes & enhancements (SPR #76410, 76388, 68653, 66859) The list of fixes & enhancements includes: - Fix invalid JSON publishing format if a variable was not initialized (was missing quotes). - Support for publishing the value of indirect attributes. - Support for publishing alarm changes. - Support for cyclic publish.	Communication interfaces > MQTT Pub-Sub Also in: 17.0.0
New properties (SPR #76333) Added property 'Max age' to polling group configuration. Added property 'Sampling interval' to subscription configuration.	Data Acquisition > OPC UA Client Also in: 17.0.0

Alarm viewer - Support for left and right clicks (SPR #76462)

WebVue alarm viewer now supports left and right clicks in a way similar to that of the desktop application:

- Left click to trigger actions such as executing a SCADA Basic script (lineselect, online select, etc.)
- Right click to open the context menu

Behavior on touch devices remains unchanged.

Web Server Extensions

> WebVue

Also in: 17.0.0

Trend viewer - Support for start time mode (SPR #73655)

Querying trends based on a start time and time period is now available in WebVue in a way similar to that of the desktop application.

It is also possible to query a time period ending in the future.

Web Server Extensions

> WebVue

Also in: 17.0.0

4. Performance

Display of configuration elements (SPR #76456)

The time it takes to browse and display configuration elements is drastically reduced.

Benchmarks indicate a reduction from several tens of seconds to 1 or 2 seconds to browse and display 1500 elements.

Configuration

Environments >

Application Explorer

Also in: 17.0.0

5. Security

SB2026-2 - Multiple vulnerabilities affecting WebVue, the WebScheduler and mobile apps (SPR #76380, 76379, 76378, 76376, 76375, 76374, 76373, 76372, 76370, 76369)

The following vulnerabilities are fixed. They affect the GraphicalData service, the WebClient and/or the WebScheduler web apps:

- CVE-2026-1692 - Missing origin validation in GraphicalData web service requests - Affects all versions since 12.0.
- CVE-2026-1693 - Use of vulnerable Resource Owner Password Credentials flow - Affects all versions since 12.0.
- CVE-2026-1694 - Server configuration details in HTTP headers - Affects all versions since 12.0.
- CVE-2026-1695 - XSS vulnerability upon unsuccessful authentication - Affects all versions since 12.0.
- CVE-2026-1696 - Missing security HTTP headers - Affects all versions since 12.0.
- CVE-2026-1697 - Use of unsecure cookies for the GraphicalData web service and the WebClient web apps - Affects all versions since 12.0.
- CVE-2026-1698 - HTTP Host header vulnerability in WebClient and WebScheduler web apps - Affects all versions since 15.0.

See our [Security bulletin](#) for more information.

Web Server Extensions

Also in: 17.0.0, 15.2.14

6. Other fixes & enhancements

SPR #76290

Also in: 17.0.0, 15.2.14

SPR #76162, 76415, 76481

Also in: 17.0.0

4. Maintenance Release 16.3.3 (16.3.03902)

1. Fixes

Callback port reset (SPR #74207) Using the Web Deployment Console, the Backend callback port was reset to its default value when applying a change to the application configuration.	Add-ons and Tools Also in: 17.0.0
Fatal error on alarm variable creation (SPR #76312) Under some circumstances, a fatal error could occur when creating alarm variables. The issue was more likely to occur upon heavy variable import, typically configuration generation via the Application Architect, when a large number of variable creations occurs while other components re-subscribe to alarm changes.	Alarms Also in: 17.0.0
Fatal error if missing network interface (SPR #76117) A fatal error occurred when modifying properties of a sector on a host with a network configuration not matching the network interfaces declared for the IEC 60870-5-104 outstation.	Communication interfaces > IEC 60870-5-104 Outstation Also in: 17.0.0
System variable not updated (SPR #76127) The system variables are now updated immediately upon connection of a charge point.	Communication interfaces > OCPP Also in: 17.0.0
Fatal errors (SPR #75756) Fatal errors could occur when using Sql connections, Sql Read queries and Sql Write queries.	Communication interfaces > Sql connections Also in: 17.0.0
Sort did not work (SPR #75987) Sorting data in the grid when using the Sql query wizard did not work in the Application Explorer.	Communication interfaces > Sql connections Also in: 17.0.0
Could not rename element (SPR #74328) Data export elements Log page log and Trend page trend could not be renamed when added to a template.	Configuration Environments > Application Architect Also in: 17.0.0
Error on reading the ACTIVE_COV_SUBSCRIPTIONS property (SPR #76475) A fatal error occurred when a device returned an error in response to a read request of the ACTIVE_COV_SUBSCRIPTIONS property.	Data Acquisition > BACnet Client
Writing dropped (SPR #76386, 76299) Under some circumstances, the property <i>protocol-services-supported</i> was not dealt with properly to discover device capabilities. After some time, writing would no longer be performed, as if the device declared not to support it.	Data Acquisition > BACnet Client Also in: 17.0.0
Unnecessary requests upon switching to passive (SPR #75967, 75838) Under some circumstances, when running redundant data acquisition servers in a configuration with authentication based on user name and password, a data acquisition server would send unnecessary CreateSubscription and CreateMonitoredItem requests when switching to passive, potentially causing resource exhaustion on the OPC UA server side.	Data Acquisition > OPC UA Client Also in: 17.0.0
Modbus Ip slave - Command failure (SPR #76338) It was not possible to send commands on variables mapped on a frame of type Input register or Single coil.	Data Acquisition > Other built-in drivers Also in: 17.0.0

Instance import failure (SPR #76027, 75813) Importing instances using the Xml Generic Import could fail.	Development kits > XML Generic Import Toolkit Also in: 17.0.0
Bumped timestamp handling limits (SPR #76062) In some components, the internal representation of timestamps was limited to dates before January 19, 2038. These components are now in line with timestamp representation standards and ready for time and dates up to December 31, 9999.	General Also in: 17.0.0
Several fixes related to password handling (SPR #76037, 75977, 75954, 75844) The list of fixes includes: • SPR #76037 - When password lifespan was enabled, password renewal was requested repeatedly even after it was renewed. • SPR #75844 - Related to profile levels for unlocking accounts. • SPR #75954 - Fixed precedence when a user is not allowed to modify his/her password, but the setting requiring renewal on first login is activated.	General > User management Also in: 17.0.0
Label for enum value Unavailable (SPR #76121) When using labels associated with a register or a text variable in a text animation, the label defined for the enumeration value Unavailable was ignored and replaced by a question mark (?) at runtime.	HMI Also in: 17.0.0
Substitution strings not handled correctly (SPR #75173, 14462) Substitution strings #B10, #B11 and #B12 were not properly handled when used in a symbol.	HMI Also in: 17.0.0, 15.2.13
Fatal error with unknown variables (SPR #76315) Under some circumstances, a fatal error of sv32.exe occurred when using an expression in an animation. The issue only occurred when using #_Q or #_T for an unknown variable or an HMI variable in the expression.	HMI > Animations Also in: 17.0.0
Recipe name and title reversed (SPR #76252) When using the Recipe animation, if the recipe was selected by its name, the recipe name and number were reversed in the HMI.	HMI > Animations Also in: 17.0.0
Fatal error with multiple Web browser controls (SPR #76349) Under some circumstances, a fatal error could occur when opening and closing a mimic containing several instances of the Web browser control.	HMI > Web browser control Also in: 17.0.0
Several stability fixes (SPR #76266, 76236, 76090, 76088) The list of fixes includes: • SPR #76088 - A fatal error could occur on disconnection on an unstable network. • SPR #76090 - Improved control of the outgoing Network Interface Card. • SPR #76236 - A fatal error could occur at startup if an expected node could not be found, typically after having deleted a node from a station and restarted. • SPR #76266 - A fatal error could occur on connection/disconnection. • Fix to audit counters: Size of receive buffer (in bytes), Deleting server objects, Deleting client object.	Networking Also in: 17.0.0, 15.2.13, 12.0.32
Fatal error on change of extended attributes (SPR #76009, 75256) Under some circumstances, a fatal error could occur on value change of a variable extended attribute. The issue was more likely to occur under heavy load, with a large number of attribute changes being processed.	Real time data Also in: 17.0.0
Instruction FTPS - Url parsing error (SPR #75990) An error was returned even for valid ftp and ftps Url, preventing connection establishment. The issue was a regression introduced in 16.2.5 and 16.3.0.	Scripting > SCADA Basic Also in: 17.0.0
Instruction STATION_FILTER mode CLEAR (SPR #76494, 75991, 75985, 75983, 74463) A fatal error occurred when calling the instruction STATION_FILTER mode CLEAR.	Scripting > SCADA Basic Also in: 17.0.0

Wrong range verification on command (SPR #74015) When sending a command for a register variable, the value was checked against the max for scaling instead of the max for command.	Web Server Extensions > Web Services Toolkit Also in: 17.0.0
Alarm viewer - Actions on multiple alarms no longer effective (SPR #76004, 76003) Fix of a regression, since PcVue 16.2.5, the following actions were no longer effective when executed in a web context: - Ack all and Mask all actions in the Alarm viewer. - SCADA Basic instruction ALARMDISPLAY mode ACK_DISPLAY and MASK_DISPLAY. - SCADA Basic instruction ALARMDISPLAY mode GETVISIBLELINES.	Web Server Extensions > WebVue Also in: 17.0.0
Arc and pie drawing elements rendering (SPR #76100) Under some circumstances, the rendering of Arc and pie drawing elements was incorrect.	Web Server Extensions > WebVue Also in: 17.0.0
Click handling with mimic title bar (SPR #75361) When clicking on a button in a mimic title bar, for example the cross button to close a popup mimic, the click was propagated to control animations in another mimic under the popup at the clicked coordinates (if any).	Web Server Extensions > WebVue Also in: 17.0.0
Context variable not resolved (SPR #76082) A context variable was not resolved properly when using the syntax @#V in a Trend viewer with a branch.	Web Server Extensions > WebVue Also in: 17.0.0
Fatal error opening and closing sessions (SPR #76367) Under some circumstances, a fatal error of the sv32.exe process could occur on the Web backend station when opening and closing WebVue sessions quickly.	Web Server Extensions > WebVue Also in: 17.0.0
Freeze upon mimic opening (SPR #76200) Under some circumstances, WebVue could freeze upon mimic opening due to a configured quota on the size of messages for the GraphicalData service. The default max size of a message is now 512 Kb (was 64). The issue could happen when opening a mimic comprising an alarm or log viewer configured to display a large number of events.	Web Server Extensions > WebVue Also in: 17.0.0
Improved robustness (SPR #76485) Fatal errors of the web backend station could occur as part of the refresh of WebVue graphic elements.	Web Server Extensions > WebVue Also in: 17.0.0
Trend viewer - Recent values not visible on trends (SPR #74650) Under some circumstances, when zoomed in, the most current values of trends could be hidden by the toolbar.	Web Server Extensions > WebVue Also in: 17.0.0
Wrong trend viewer position (SPR #76055) If in a group or symbol, the position of a Trend viewer could be wrong when rendered on the Web client.	Web Server Extensions > WebVue Also in: 17.0.0

2. Critical fixes

Deadlock with the Xml Generic Import (SPR #76087, 74398) A dead lock could occur when importing variables other than 'Internal'. The issue manifested itself with a freeze during Application Architect generation or synchronization, while using a Smart Generator or the Xml Generic Import directly with the XmlImporter.exe command line. A forced exit of Sv32.exe occurred after the 10-minute watchdog timeout. It was a known issue since 16.3.0.	Configuration Environments Also in: 17.0.0, 15.2.14
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Failure to re-subscribe BACnet COV (SPR #76445, 76089) BACnet COV re-subscriptions were not handled correctly, leading to a situation where BACnet variables were no longer monitored nor refreshed. Because the issue was related to re-subscription, it became obvious only after some time, once a re-subscription was necessary (typically 1 hour). It was a known issue since 16.3.0. The fix also includes: • Additional traces for COV/UCOV diagnostic. • From now on, when using COV or UCOV for monitoring, the property Active_COV_Subscription is monitored to check the items' status. The monitoring period used is the same as the COVLifeTime, or 1 hour if COVLifeTime is not used (default).	Data Acquisition > BACnet Client Also in: 17.0.0
Project folder with RDS (SPR #75436) When deploying a host in an RDS architecture, the project folder was no longer duplicated in the proper directory. The issue was a regression introduced in 16.3.0.	General Also in: 17.0.0
Deferred attributes no longer archived (SPR #76007, 75523) The value of deferred extended attributes was no longer recorded as part of a log list if using proprietary archive. The issue was a regression introduced in 15.2.11, 16.2.5 and 16.3.0.	Historical data Also in: 17.0.0, 15.2.13
Expressions in animation not taking sessions into account (SPR #76363, 74294) Since 16.3.2, expressions in animations were calculated without taking sessions into account.	HMI > Animations Also in: 17.0.0
Send text animation no longer worked (SPR #76470) The Send text animation no longer worked in WebVue. The issue was a regression introduced in 16.3.2.	Web Server Extensions > WebVue Also in: 17.0.0

3. Enhancements

Several fixes & enhancements (SPR #76278, 76256, 75227) The list of fixes & enhancements includes: • Connection to AWS MQ using a certificate failed. • Fixed fatal error upon connection when more than one broker was configured and available for connection. • Added support to publish a message on alarm acknowledgement by adding the key PublishMessageOnAlarmStatusChange = true in the TaskParameters section of the .ini file	Communication interfaces > MQTT Pub-Sub Also in: 17.0.0
Several fixes and enhancements (SPR #76237, 76098, 76021, 75993) The list of fixes & enhancements includes: • SPR #75993 - Under some circumstances, with a configuration comprising a large number of devices, the protocol-services-supported property could be read too late. • SPR #76021 - Under some circumstances, a fatal error could occur upon stopping a BACnet network. • SPR #76098 - Fix of a fatal error on bitstring conversion when using the ReadProperty service. • SPR #76098 - Fix of a fatal error when a bitstring value was empty. • SPR #76237 - Under some circumstances, the device address was not detected when creating variables and the polling was not started.	Data Acquisition > BACnet Client Also in: 17.0.0
Driver Modbus Ip - Byte swapping (SPR #76066) Support for byte swapping with 2 new frame types named Holding register LMsB and Input register LMsB.	Data Acquisition > Other built-in drivers Also in: 17.0.0
Driver S7 Ip Industrial Ethernet - New timestamped frame type (SPR #74845) Added new timestamp frame type 'Block IEC Ext' to support db number up to 65535.	Data Acquisition > Other built-in drivers Also in: 17.0.0
Driver Saia Ip and Ether S-BUS - Dependency removed (SPR #74944) Ip-based Saia drivers no longer require the SCommDll.dll or SCommDll52.dll. You can now use these drivers on hosts without installing Saia PG5.	Data Acquisition > Other built-in drivers Also in: 17.0.0

Driver Saia Ip and Ether S-BUS - Support for host name Support for configuration by host name in addition to configuration by Ip address of the controller for Ip-based Saia drivers.	Data Acquisition > Other built-in drivers Also in: 17.0.0
Mapping of 64 bits signed/unsigned integer (SPR #76061) Support for mapping 64 bits signed/unsigned integer on frames for all other built-in drivers	Data Acquisition > Other built-in drivers Also in: 17.0.0
Profile information available in Assistant Bots Added Profile description, Profile name, and Profile role in GetUserInfo and UserInfoChanged operations.	Instant Messaging > Smart Bot Also in: 17.0.0
Instruction VARIABLE - New mode GET_ASSOC_LABEL (SPR #76328) Added new mode GET_ASSOC_LABEL to the instruction VARIABLE to retrieve the label associated to a specified value. The syntax is: VARIABLE("GET_ASSOC_LABEL", "VALUE CHANGETO COMMAND", VarName, Value [, Lang])	Scripting > SCADA Basic Also in: 17.0.0
Improved title bar font size (SPR #75362) Improved title bar to better align with mimic design for the PcVue desktop app.	Web Server Extensions > WebVue Also in: 17.0.0
Support for more substitution strings (SPR #76026, 71997, 70085) Added support for the substitution strings #P, #U and #I.	Web Server Extensions > WebVue Also in: 17.0.0
Support for Sql filter on the alarm viewer (SPR #75492) Sql filter on the alarm viewer can now be used with the Web client.	Web Server Extensions > WebVue Also in: 17.0.0

4. Performance

Improved performance and optimization for storage (SPR #76348) The list of fixes & enhancements includes: - Csv local file is now handled as a hot storage operating mostly in memory, and persisted on disk. - Fixed issue in Update database operation. - Improved performances of expression handling for static values. - Improved memory management. - Optimized performance for expressions. - Max number of items displayed in the list component now limited to 100.	Instant Messaging > Smart Bot Also in: 17.0.0
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5. Security

SB2026-1 - Vulnerable libraries updated Update of the following third-party libraries: - Google.Protobuf: Updated from version 3.31.0 to 3.33.0. CVE-2022-3171 and CVE-2025-47273. - expat: Updated from version 2.6.4 to 2.7.3. CVE-2024-8176 and CVE-2025-59375. - curl: Updated from version 8.15.0 to 8.16.0. CVE-2025-9086, CVE-2025-10148 and CVE-2025-10966. - libwebsockets: Updated from version 4.3.5 to 4.4.1. CVE-2025-11677. - openssl: Updated from version 3.5.2 to 3.5.4. CVE-2025-9230, CVE-2025-9231 and CVE-2025-9232. See our Security bulletin for more information.	General
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SB2025-4 - Client/Server networking instability (SPR #76197, 76112)

Since the introduction of the security fix described in the security bulletin SB2025-4, networking packets could be falsely detected as malformed, causing a server station to force a disconnection. This issue led to a situation where a client station would not be able to stay connected to a server station in a stable way.
It was a known issue since 16.3.1, 15.2.12 and 12.0.31.
The security bulletin [Security bulletin](#) is updated (Rev B).

Networking

Also in: 17.0.0, 15.2.13, 12.0.32

Settings to maintain backward compatibility (SPR #76308, 76222)

To make it possible to temporarily maintain compatibility while updating a system to a product release offering hardened packet sequence control, a new setting on the Networking node called 'Allow stations with altered security' and a new property also called 'Allow stations with altered security' on station's node configuration are available.
To facilitate the station by station update, when re-starting an existing project, the new global setting is checked by default. Once all stations of a system are updated, the setting shall be unchecked and all nodes shall have the property set to 'No' to ensure the packet sequence control is hardened for all client/server links.

Networking

Also in: 17.0.0, 15.2.13, 12.0.32

6. Other fixes & enhancements

SPR #74595, 74765, 74791, 75586, 75587, 75688, 75783, 75857, 75871, 75950, 75952, 75955, 76010, 76018, 76060, 76065, 76110, 76116, 76130, 76185, 76204, 76263, 76351, 76477

Also in: 17.0.0

SPR #76292

Also in: 17.0.0, 15.2.14

SPR #76274, 76284

Also in: 17.0.0, 15.2.13, 12.0.32

SPR #72680, 74145, 75827, 76247

Also in: 17.0.0, 15.2.13

SPR #73861

Also in: 17.0.0, 15.2.10

5. Maintenance Release 16.3.2 (16.3.02901)

1. Fixes

Confusing alarm status (SPR #75097) Under some circumstances, when an alarm is the result of an expression, the alarm could have the status 'Masked by expression' where it should have had the status 'Invalid' due to the expression it depends on.	Alarms Also in: 17.0.0
Connection handling (SPR #75338) Improved connection handling to better support charge points sending multiple connection requests or not handling BootNotification and Status messages in a timely fashion.	Communication interfaces > OCPP Also in: 17.0.0
Fatal error with missing library (SPR #75960, 75308) A fatal error of Sv32.exe could occur when selecting a template in the Application Architect in case a library was missing.	Configuration Environments > Application Architect Also in: 17.0.0
Initial value for HMI variables (SPR #75720) Added <i>Initial value</i> property for HMI variables.	Configuration Environments > Application Architect Also in: 17.0.0
Scope for Sql variables (SPR #74329) When using the Application Architect, it was not possible to configure a Sql variable with a scope other than Shared.	Configuration Environments > Application Architect Also in: 17.0.0
Wrong mapping with BACnet (SPR #74969) Under some circumstances, the mapping of a variable with BACnet was incorrect. The issue only occurred after a change of the BACnet variable type in a template.	Configuration Environments > Application Architect Also in: 17.0.0
Wrong timestamp conversion (SPR #75130) Timestamp conversion was not always correct when requiring time zone conversions. In addition, timestamp conversion properties are now also available at the device level.	Data Acquisition > DNP3 Client Also in: 17.0.0
Wrong timestamp quality (SPR #75905) A variable mapped onto an Integrated total ASDU had a timestamp quality 'PLC' even if it was configured for not being time-tagged.	Data Acquisition > IEC 60870-5 Client Also in: 17.0.0, 15.2.13
Variable not updated (SPR #75758) A variable mapped onto the IEC 61850 driver remained invalid if mapped onto a Data Object that did not have the Data Attributes orIdent and orCat, even if polled correctly.	Data Acquisition > IEC 61850 Client Also in: 17.0.0
Service call timeouts not taken into account (SPR #75754) Services call timeout properties were not taken into account and in practice fixed at 10 sec.	Data Acquisition > OPC UA Client Also in: 17.0.0
Comm.dat corruption (SPR #74318) Under some circumstances, after a migration from a version older than 16, copying and pasting a communication configuration element in the Application Explorer (network or device) could lead to the corruption of the comm.dat configuration file. This issue was related to changes in the file format, and the fact that these changes are only applied upon configuration saving. As a consequence, the issue did not occur if a save had been performed before the copy/paste.	Data Acquisition > Other built-in drivers Also in: 17.0.0

Communication failure at startup (SPR #75922) Using the Application Explorer's <i>Start all</i> task or the <i>CIMWAY("ON")</i> SCADA Basic instruction failed the first time it was used after startup due to an issue related to configuration initialization (and was traced as such with a <i>CwReadConfiguration</i> error).	Data Acquisition > Other built-in drivers Also in: 17.0.0
Mapping display issue after migration (SPR #75840) The mapping for some frame types could be wrongly displayed after migration to version 16.	Data Acquisition > Other built-in drivers Also in: 17.0.0
Could not change template folder (SPR #75889) Changing the template folder from a client station was not possible, the change was overridden when saving.	Data Export Also in: 17.0.0
Missing headers (SPR #75690) The variable description was only exported if the variable name was also exported.	Data Export Also in: 17.0.0
Idle time-out not set (SPR #73945) The property <i>Idle time-out</i> of the Application pool in IIS was not set. As a consequence, the resources for the Webclient and Oauth web apps were released upon IIS switch to idle, causing the next login to take more time than it should.	Deployment tools > Web Deployment Console Also in: 17.0.0
Generic import failed (SPR #75162) Generic import failed if importing an expression comprising variables defined after in the imported Xml file. The issue was a regression introduced in 16.2.4.	Development kits > XML Generic Import Toolkit Also in: 17.0.0
Archive unit not loaded (SPR #75444) Under some circumstances, when using a proprietary archive unit with special or accentuated characters in its backup folder path, the unit did not load at startup.	Historical data Also in: 17.0.0
Variable linking with text variables (SPR #75522) Variable linking with Text variables was no longer effective.	HMI Also in: 17.0.0
Instructions TREEVIEW, COMBOBOX, CHECKLIST, LISTBOX and OPTIONLIST - Mode SAVE (SPR #75626, 75625, 75463, 72798) When using the mode SAVE, only texts in the current display language were saved. For bilingual projects, texts for the second language were not saved.	HMI > Form controls Also in: 17.0.0, 15.2.13
Items not loaded at runtime (SPR #75406) Under some circumstances, the list of items in a form control would remain empty in run mode if configured to load the list of items from a file. The issue only affected PcVue desktop, WebVue was not affected.	HMI > Form controls Also in: 17.0.0
Issues with persistent variables (SPR #75814, 64631) For persistent variables, binary attributes were not correctly saved, and also the value of a text variable if it contained double-quotes.	Real time data Also in: 17.0.0
Instruction FILETOBUF - Incorrect error with empty file (SPR #75298) An incorrect error message 'Memory full' was traced when handling an empty file with instruction FILTEOBUF.	Scripting > SCADA Basic Also in: 17.0.0
Instruction SEQ_BUFFER mode PREVFIELD - Wrong return value (SPR #75366) The instruction always returned 0 when using the syntax that returns the value in a buffer (as opposed to the syntax that returns a typed return value).	Scripting > SCADA Basic Also in: 17.0.0, 15.2.13
Anchor point handling (SPR #75374) Under some circumstances, when the anchor point was outside the graphical element, the rendering in WebVue was incorrect. The issue only occurred with graphical element groups and symbols.	Web Server Extensions > WebVue Also in: 17.0.0
Controls not rendered properly (SPR #75122) Some graphic controls, in particular the alarm and log viewers were not rendered properly when zooming using the Web browser zoom feature.	Web Server Extensions > WebVue Also in: 17.0.0

Datetime format for send register animation (SPR #75638) The following formats are now supported when using the Send register animation: #d, #t, #t1, #t2, #t3, #t4	Web Server Extensions > WebVue Also in: 17.0.0
Gif image scaling (SPR #75355) Gif images were not scaled properly when resizing the Web browser.	Web Server Extensions > WebVue Also in: 17.0.0
Map control - Symbol markers not displayed (SPR #75661, 73270) Under some circumstances, depending on zooming and scaling, markers of type Symbol were not displayed on a map control.	Web Server Extensions > WebVue Also in: 17.0.0
Popup mimic not opening (SPR #73717) Under some circumstances, a popup mimic would not open if another one is already open.	Web Server Extensions > WebVue Also in: 17.0.0
Script on item selection in form controls (SPR #75018) The script configured to be called on item selection in form controls could be triggered more than once at mimic opening or on item selection. The issue affected all form controls.	Web Server Extensions > WebVue Also in: 17.0.0

2. Critical fixes

Alarms out of synch (SPR #75260) Under some circumstances, when a delayed alarm was masked during its temporization period, the actual value was not kept updated while it was masked and the alarm state in PcVue and on the field appeared in discrepancy after unmasking.	Alarms Also in: 17.0.0, 15.2.13
Multi-node no longer working (SPR #75685) The communication between two stations using more than one node no longer worked when the security was not altered, only one could connect effectively. The issue was a regression integrated with the security fix for CVE-2025-9998 and CVE-2025-9999 (SB2025-4) in PcVue 12.0.31, 15.2.12 and 16.3.1.	Networking Also in: 17.0.0, 15.2.13, 12.0.32

3. Enhancements

Commands not accessible to diagnostic users (SPR #75484) In the Application Explorer, commands such as OPC UA server switch or BACnet Log test commands are now accessible to users with the permission 'Diagnostics'.	Configuration Environments > Application Explorer Also in: 17.0.0
Several fixes & enhancements for the heterogeneous mapping (SPR #76011, 75772) The list of fixes & enhancements includes: - When creating a variable from the mapping dialog box, the selected frame format was not taken into account and always forced to the first one of the list. - Possibility to create a variable with unusual format such as a register on 2 or 4 bits. - Possibility to unmap a variable in the mapping dialog box even if the variable is considered as 'other subvariable' due to format. - Variable type automatically forced to text if mapped to a text frame format when using the create variable menu item. - The <i>Bit offset</i> property is now displayed in all cases in the variable mapping properties, regardless of the mapped format and type.	Configuration Environments > Application Explorer Also in: 17.0.0
Support for change-of-value (SPR #75785) An alarm can now be mapped on a change-of-value event for event-enrollment.	Data Acquisition > BACnet Client Also in: 17.0.0

OPC XML-DA - Array mapping onto a comma-separated value (SPR #75172) It is now possible to map an array onto a text variable to retrieve all array elements as a comma-separated text value.	Data Acquisition > OPC Client Also in: 17.0.0, 15.2.12
Instructions COMBOBOX, CHECKLIST, LISTBOX and OPTIONLIST - New mode INSERT_ITEM (SPR #75443, 75442, 75441, 75440, 75013) A new mode INSERT_ITEM is available to insert items in bilingual applications: - COMBOBOX("INSERT_ITEM", Window, Branch, Identity, Text1, Text2, UserData[, Index]) - CHECKLIST("INSERT_ITEM", Window, Branch, Identity, Text1, Text2, UserData[, Index]) - LISTBOX("INSERT_ITEM", Window, Branch, Identity, Text1, Text2, UserData[, Index]) - OPTIONLIST("INSERT_ITEM", Window, Branch, Identity, Text1, Text2, UserData[, Index]) The parameter <i>Text2</i> is the item's text in the second language.	HMI > Form controls Also in: 17.0.0, 15.2.13
Instruction TREND - New modes to retrieve Min and Max values (SPR #75763, 69197) Added 2 new modes to retrieve Min and Max values of a curve: - TREND("GETDATA", Window, Branch, Identity, Trace, "MIN_DISPLAYED") - TREND("GETDATA", Window, Branch, Identity, Trace, "MAX_DISPLAYED")	Scripting > SCADA Basic Also in: 17.0.0
Instruction VARIABLE modes ASSOCLABEL and LONGLABEL - Added language parameter (SPR #75016) It is now possible to retrieve a variable's label in a language other than the current one by specifying the optional Lang parameter. VARIABLE("ASSOCLABEL", VarName[, Lang]) VARIABLE("LONGLABEL", VarName [, Lang]) Where Lang is of type INTEGER and can take the following values: 0 - Returns the label in the current language (default) 1 - Returns the label in language 1 2 - Returns the label in language 2	Scripting > SCADA Basic Also in: 17.0.0, 15.2.12
Instruction WINDOW - New modes SETACTIVETEMPLATE and RESETACTIVETEMPLATE (SPR #75482) New modes are available for the instruction WINDOW: SETACTIVETEMPLATE - To set an active mimic template. Any mimic open afterwards will be open with this template, potentially overriding the mimic template associated with the mimic by configuration. RESETACTIVETEMPLATE - To reset the active mimic template. Any mimic open afterwards will be open with its configured template, (if any).	Scripting > SCADA Basic Also in: 17.0.0
Support for #B in trend viewer (SPR #75120) Added support for the substitution #B in the Trend viewer.	Web Server Extensions > WebVue Also in: 17.0.0

4. Performance

Improved capability to handle large number of variables (SPR #75221) Improvements of read request handling over the client/server Networking for variables.	Networking Also in: 17.0.0, 15.2.13
Instruction COMBOBOX mode SORT (SPR #75043) Improved time to sort the list of items in a combo-box control. Before this improvement, the UI could freeze for several seconds if the number of items in the combo was large.	Scripting > SCADA Basic Also in: 17.0.0

5. Security

SB2025-5 - Vulnerable libraries updated	General
Update of the following third-party libraries:	
• c-ares: CVE-2025-31498 • libxml2: CVE-2024-56171, CVE-2025-24928, CVE-2025-27113, CVE-2025-32414 and CVE-2025-32415 • mbed-TLS: CVE-2025-27809, CVE-2025-27810, CVE-2025-47917, CVE-2025-48965, CVE-2025-49087, CVE-2025-49600, CVE-2025-49601, CVE-2025-52496 and CVE-2025-52497	
See our Security bulletin for more information.	

6. Other fixes & enhancements

SPR #73860, 74020, 74239, 74294, 74591, 74943, 75127, 75521, 75546, 75555, 75565, 75571, 75674, 75721, 75834, 75934	Also in: 17.0.0
SPR #73985, 75349, 75762	Also in: 17.0.0, 15.2.13

6. Maintenance Release 16.3.1 (16.3.01900)

1. Fixes

Generation failure with a trend page (SPR #74327) Configuration generation failed if it included a trend page with an HDS trend.	Configuration Environments > Application Architect Also in: 17.0.0
UCS2 and UCS4 encoding (SPR #75496) When using UCS2 or UCS4 encoding, only alphanumerical Latin characters were properly interpreted.	Data Acquisition > BACnet Client Also in: 17.0.0
Writing to an INT OR UINT property (SPR #75495) Writing a variable via a SCADA Basic script did not work if the variable was mapped to a BACnet property of type INT or UINT.	Data Acquisition > BACnet Client Also in: 17.0.0
Incorrect success message (SPR #73071) The Data export logged a trace 'generation succeeded' even when the HDS was not running or the database was disconnected. It now fails gracefully. The issue only affected data export when used with an HDS archive unit.	Data Export Also in: 17.0.0, 15.2.12
Support for non-Latin characters (SPR #73553) Non-Latin characters could not be used as part of a filter on Text extended attributes when configuring a log page.	Data Export Also in: 17.0.0, 15.2.12
Could not configure maintenance tasks (SPR #75305, 75258) When using the MSOLEDBSQL driver (as opposed to the SQLOLEDB driver), it was not possible to configure maintenance tasks of types Shrink, Defrag and Custom. Only tasks of types Export and Purge were available.	Historical data Also in: 17.0.0
Several fixes & enhancements (SPR #75234, 75233, 75119, 74908) The list of fixes & enhancements includes: • Support for Push notification processing. • Added check for unrecoverable dismiss. • Fixed Http request with variables. • Added notification click condition. • Added ordering in Find in database operation. • Fixed validation issues with the Send email operation. • Fixed ML pipeline and data conversion issues. • Fixed fatal error when sending long UI messages. • Fixed fatal error in MsGraph module. • Fixed remove variable blocking issues. • Fixed issues with file path resolution. • Fixed DateTime parsing issues with Excel file operations. • Added condition for Contextual User info. • Fixed issues with the Counter operation initial value. • Updates to Scheduler and MSGraph. • Fixed hierarchical profiles issue.	Instant Messaging > Smart Bot Also in: 17.0.0
Push client configuration format (SPR #75310) Under some circumstances, when using the Push notification feature, a fatal error of PcVue could occur upon user authentication via a mobile app. The issue was caused by formatting issues of the Push configuration file.	Miscellaneous Also in: 17.0.0
Fatal error upon switchover (SPR #74467) Under some circumstances, a fatal error could occur on server switchover. The issue occurred with an association comprising more than 60 redundant servers.	Networking Also in: 17.0.0

Fatal error when sending an SMS (SPR #75099) Under some circumstances, when an SMS contained non-Latin characters or extended characters, a fatal error occurred.	SMS and email Also in: 17.0.0
Context mimic would not open (SPR #75257) When a graphic element had a command animation and was support for opening a context mimic, the opening of the context mimic was not effective. The behavior on touch device remains unchanged.	Web Server Extensions > WebVue Also in: 17.0.0
Map control regressions (SPR #75106, 75105) Under some circumstances, when using markers of type Symbol, comprising a mimic open animation, the symbols within the map control were no longer updated after having opened the mimic. In addition, popup mimics did not open at their configured position. These issues were regressions introduced in 16.2.5 and 16.3.0.	Web Server Extensions > WebVue Also in: 17.0.0
Tooltips duplicated (SPR #75247) Under some circumstances, when using comments as tooltips in nested symbols and groups, tooltips were duplicated on the screen.	Web Server Extensions > WebVue Also in: 17.0.0
Wrong click position (SPR #74987) Under some circumstances, when a clickable graphic element was small and the scale ratio high, the click could be executed for a wrong position. The click position calculation is changed for graphic elements with a height or width up to 15 px.	Web Server Extensions > WebVue Also in: 17.0.0

2. Critical fixes

Pulse scheduled action never reset (SPR #74829, 74682, 74310) If a schedule was configured for a pulse command, the value was never reset. The issue was a regression introduced in 16.2.0.	Miscellaneous Also in: 17.0.0
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3. Enhancements

Disable configRev verification (SPR #75171) It is now possible to disable the configRev verification at startup by activating a device property.	Data Acquisition > IEC 61850 Client Also in: 17.0.0
File name length for Csv (SPR #75109) The maximum length for the name of exported Csv files is now 260 (was 31).	Data Export Also in: 17.0.0
Configurable font size (SPR #74213) The font size for the vertical scales can now be customized at design time.	HMI > Trend viewer Also in: 17.0.0
Improved binding (SPR #75161) If more than one binding is configured for the OAuth server, the binding with the same host name as the user used to access the WebScheduler is preferred (if it exists).	WebScheduler Also in: 17.0.0

4. Security

SB2025-4 - Vulnerabilities in the client/server Networking (SPR #74711, 74710, 74709) The following vulnerabilities are fixed. They affect the TCP-based client/server Networking feature: - CVE-2025-9998 - Improper validation of packets sequencing - Affects all versions. - CVE-2025-9999 - Improper validation of payload elements - Affects all versions. See our Security bulletin for more information. [Edit: The fix in 12.0.31, 15.2.12, 16.3.1 and 16.3.2 is not effective. Refer to the section Known issues for more information.]	Networking Also in: 17.0.0, 15.2.12, 12.0.31
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5. Other fixes & enhancements

SPR #75110, 75169, 75212, 75264, 75284, 75306, 75434	Also in: 17.0.0
SPR #75491	Also in: 17.0.0, 15.2.12

7. Feature Release 16.3.0 (16.3.00901)

1. New features

MQTT publish format New fully customizable publish format.	Communication interfaces > MQTT Pub-Sub
New Sql query wizards (SPR #73464) Added Sql query wizards for Oracle and the REST built-in provider.	Communication interfaces > Sql connections
Support for dynamic datasets (SPR #73216) Added support for dynamic datasets, allowing the dynamic and automatic creation/modification/deletion of datasets based on the list of variables mapped.	Data Acquisition > IEC 61850 Client
Support for setting group control blocks (SPR #73217) Added support for setting group control blocks, allowing the mapping of variables on SGCB to control the currently active setting group.	Data Acquisition > IEC 61850 Client
New license reference for Building Automation (SPR #75133) The new reference HMI_BACS is available to cover the BMS needs for buildings up to 1000 m2. It includes: • Data acquisition drivers - BACnet, Lonworks, KNX, Modbus, SIA Honeywell, IP500, MQTT, LoRa, Modbus, SNMP, OCPP, Universal Data Connector. • Smart control. • Energy management with a bundled EmVue license. • Desktop and web clients. • ... This reference may only be available under specific conditions and geographical areas. Please contact your reseller for more information.	General > Licensing Also in: 16.2.5, 15.2.12
Multiline tooltips (SPR #74868, 74867) Multiline tooltips that automatically combine the Comment property values of all animations linked to a graphic element into a single tooltip at runtime.	HMI > Animations
SimuLock SimuLock is a handy new tool for viewing and controlling any variable used within the displayed mimic. It makes it easy to test mimic animations when data acquisition sources are down or not available. It also proves useful when you need to simulate values for one or more variables due to inaccurate I/O data at the process level. Accessible directly from the WebVue system toolbar, SimuLock gives you the ability to: • Instantly set and reset the simulation mode of any variable. • Adjust the simulated values in real-time. • Specify an expiration date for when the variable simulation will automatically terminate. It comes with strict user permissions enforcement, ensuring only authorized individuals can set simulation modes at runtime.	Web Server Extensions > WebVue

2. Fixes

Fatal error of the Database manager (SPR #74220) A fatal error occurred when testing the connection during the add database step of the replication configuration wizard.	Add-ons and Tools Also in: 16.2.4
Masking by variable not taken into account (SPR #73551) The configuration of masking by variable was not taken into account on a threshold variable with an alarm behavior.	Alarms

Fatal error with mismatched configuration (SPR #74064) Under some circumstances, a fatal error occurred when PcVue was configured as a called Client/Server ICCP control center and the Remote domain or the BilateralTableID configured in the ICCP.ini file was different from the local domain or BilateralTableID of the remote control center that was connecting.	Communication interfaces > ICCP Also in: 16.2.4, 15.2.11
Several fixes & enhancements (SPR #74443, 74442, 74441, 74263) The list of fixes & enhancements includes: - Fix alarm values received as 0 or 1 not properly interpreted. - Writing forcing was always set to 1, and the <i>IsWritable</i> property was not properly read. - Fix TLS connection failing at startup. The issue was a regression introduced in 16.1.1.	Communication interfaces > MQTT Pub-Sub Also in: 16.2.4
Several fixes & enhancements (SPR #74965, 74865) The list of fixes & enhancements includes: - Connector count was not correctly calculated, a connection could be refused when it should have been authorized. - svOcppAuthenticationStoreManager.exe was not launching when no path was specified, it is now possible to set the path via the console. - The TraceEnabled key can now be added in the chargepoint section to enable traces. - A TraceEnabled attribute variable was added, per chargepoint.	Communication interfaces > OCPP
Fatal error upon receiving write requests (SPR #74343) A fatal error could occur upon receiving a write request on the OPC Server interface if the received value was out of range.	Communication interfaces > OPC Server Also in: 16.2.5, 15.2.11
Could not reset Threshold value (SPR #73828) Resetting the property Threshold value was no longer possible. The issue was a regression introduced in 16.2.	Configuration Environments > Application Architect Also in: 16.2.1
<i>Upgrade</i> Inverted front masking on a threshold (SPR #73729) Front masking configured on a threshold was inverted when configured with the Application Architect (as opposed to configured with the Application Explorer).	Configuration Environments > Application Architect Also in: 16.2.1
Parameter calculation (SPR #74319) Parameter calculation was not done for the <i>Naming rule</i> property.	Configuration Environments > Application Architect Also in: 16.2.4
Several fixes & enhancements (SPR #75128, 74911, 74555, 74330) The list of fixes & enhancements includes: - The <i>FileItem</i> object could not retrieve <i>DescriptionLang2</i> from a variable. - Some properties were missing in Application Architect for <i>DNP3 network</i> elements. - A fatal error occurred when the <i>Description</i> property was used in other properties.	Configuration Environments > Application Architect Also in: 16.2.5
Several fixes & enhancements (SPR #74033, 73969, 73864, 73820) The list of fixes & enhancements includes: - Polling group <i>Name</i> property showed an error after being filled. - Enumeration values were not correctly associated with their labels when using leaf-only or short-branch naming rules. - A fatal error occurred at startup due to a compatibility issue with <i>ServerListName</i> in variable expressions when using the unitary mode.	Configuration Environments > Application Architect Also in: 16.2.2
Symbols not inserted into mimics (SPR #74179) During generation with the graphical option, symbols were not inserted into mimics. This issue was a regression introduced in 16.2.2.	Configuration Environments > Application Architect Also in: 16.2.3

Deletion of a masking variable also deleted alarms (SPR #70804) If a variable configured to mask alarms was deleted, the associated alarms were also deleted.	Configuration Environments > Application Explorer
Memory leak (SPR #73952) A memory leak occurred linked to items that manage state visualization. It could become problematic when keeping a view with lots of elements open for a long time.	Configuration Environments > Application Explorer Also in: 16.2.5, 15.2.11
Failed to retrieve Trend log (SPR #74000, 73884, 73876) Under some circumstances, retrieving data from a Trend log could fail when a disconnection and reconnection occurred while reading a Trend log. A similar issue could also occur when stopping and restarting a Trend log object. In addition to the fix, a new system variable called <i>LogStatus</i> is added for Trend log, Trend log multiple and Event log objects.	Data Acquisition > BACnet Client Also in: 16.2.2
Port number higher than 32765 (SPR #74725) It was not possible to configure a port number with a value higher than 32765 (now 65535).	Data Acquisition > IEC 60870-5 Client Also in: 16.2.5
Configuration issues (SPR #74549, 74548, 73504) The list of fixes includes: • Under some circumstances, a fatal error occurred when downloading a file and mapping variables. • The <i>Scl files</i> tab was initialized when clicking <i>Apply</i>. • When a data group was selected with the mapping type <i>Control block</i>, the variable source entry showed an invalid value. • A fatal error occurred when an invalid member path was entered manually for DO mapping. • In some cases, the variable source did not use the correct DO member path.	Data Acquisition > IEC 61850 Client Also in: 16.2.5
Fatal error when reading (SPR #75019) Under some circumstances, a fatal error of Sv32.exe could occur when reading a string value ('true' or 'false') and converting it to a bit or register variable value. A similar issue could occur when using a wordbit field extraction based on a string value that could not be converted to a valid bit or register variable value.	Data Acquisition > OPC UA Client Also in: 16.2.5
Namespace not recognized (SPR #74775) Under some circumstances, a slash '/' was automatically added at the end of the namespace Uri, causing a mismatch with what was expected by the OPC UA server. The issue only occurred when the namespace was a Uri without a resource segment, for example <code>http://<server-interface></code> as opposed to <code>http://<server-interface>/resource</code> .	Data Acquisition > OPC UA Client Also in: 16.2.5
Several fixes to certificate handling (SPR #74305, 74304) Several fixes related to certificate handling and verifications when using a CA-based server certificate.	Data Acquisition > OPC UA Client
Modbus Ip - Source timestamping deactivated on property change (SPR #73512) The <i>Source timestamping</i> property was no longer set by default on a device configuration element and was reset when the device or a frame property was modified.	Data Acquisition > Other built-in drivers Also in: 16.2.3
Saia Ip - Fatal error on start-up (SPR #74008, 73865) A fatal error occurred if the Saia dll could not be found.	Data Acquisition > Other built-in drivers Also in: 16.2.2
Several fixes & enhancements (SPR #74316, 74265, 74106) The list of fixes and enhancements includes: • Added mapping of a text variable on a byte address. • Deleting the network created first was never saved correctly. • The variable Command property is now automatically activated when mapping the variable from its source tab.	Data Acquisition > Other built-in drivers Also in: 16.2.4
Error message on empty string (SPR #74260) The <i>SvmgrSnmpExtensions.dll</i> raised an error when reading an empty string from a table.	Data Acquisition > SNMP Manager Also in: 16.2.4

Leak of USER objects (SPR #74644, 74642, 74543) A leak of USER objects occurred when using the Data export wizard from a Trend viewer, potentially causing a fatal error.	Data Export Also in: 16.2.5, 15.2.11
Software license browsing (SPR #74493) Fixed software license browsing no longer working.	Deployment tools > License Utility
About box (SPR #74596, 74586) In the Web Deployment Console, minimizing the About dialog caused a freeze.	Deployment tools > Web Deployment Console
EmVue deployment broken (SPR #74084) If the EmVue portal was deployed on the same IIS web site as the other web packages, the EmVue deployment was broken after using the re-deployment task.	Deployment tools > Web Deployment Console Also in: 16.2.2, 15.2.11
Fatal error with SV Manager (SPR #73769) A fatal error occurred at startup when using an SV Manager dll compiled with an earlier version of the lib.	Development kits > SV Manager Toolkit Also in: 16.2.0
Fatal error during large import (SPR #74963, 74934) A deadlock could occur when importing a large number of variables, causing a freeze and potentially a fatal error. The issue affected imports using the XML Generic Import in general, and generation/synchronization with the Application Architect in particular.	Development kits > XML Generic Import Toolkit Also in: 16.2.5, 15.2.11
Could not unlock account (SPR #72953) With profile hierarchy enabled, a user of profile level 0 associated with an AD group could not unlock a built-in user account with a lower profile level.	General > User management
Memory leak with AD authentication (SPR #74668) A memory leak occurred when browsing an AD server.	General > User management
Password generator (SPR #74191) The password generator available in the Login dialog box could generate a password not conforming to a password policy imposing a strong password. In such a case, the password change was rejected and had to be restarted.	General > User management
Handling of Azure database (SPR #73901, 73821) Improved look-up of databases and tables, and fixed an issue preventing the creation of a database or tables.	Historical data
Maintenance plan changes (SPR #73697) The user had to confirm changes in the schedule of a maintenance plan twice for changes to be applied.	Historical data Also in: 16.2.1
Fatal error while navigating (SPR #74057, 73936) A fatal error occurred when navigating between mimics containing a large number of Gif images.	HMI Also in: 16.2.2
Issues with Visibility animations (SPR #74204, 73870) Fixed a series of issues related to the handling of Visibility animations when used on a group of drawing elements, a symbol or a graphic control.	HMI Also in: 16.2.4
Several fixes (SPR #74841, 74840, 74754, 74720) The list of fixes includes: - A fatal error occurred when opening a mimic containing an invalid OLE object. - A fatal error occurred when using the animation Symbol on a text value. - Under some circumstances, a fatal error of the web backend station occurred when closing a mimic from a Web client.	HMI Also in: 16.2.5
BATT Substitution not working with 12-branch variables (SPR #73953) BATT substitution in an animation no longer worked when using a variable with 12 branches.	HMI > Animations Also in: 16.2.2
Fatal error if branch started with '@' (SPR #74366, 74286) A fatal error occurred upon opening a mimic containing an animation with a branch starting with the '@' character if taking advantage of an HMI variable. The issue did not occur with I/O or internal variables.	HMI > Animations Also in: 16.2.4, 15.2.11

Send region animation - Selection mode (SPR #74556, 74554) Selection mode could not be changed in the advanced properties of the Send region animation.	HMI > Animations
Fatal error with mimics in Ascii format (SPR #74916) A fatal error occurred when a mimic was stored in Ascii format and contained a Bim control.	HMI > Bim control Also in: 16.2.5
Check-box list state changes (SPR #73432) The state variable was not correctly updated when checking or unchecking items in a Check-box list. Check-boxes were also not properly updated when the state variable value changed.	HMI > Form controls
Selection value issue (SPR #74358, 74321) The variable linked to the Selection value was not updated correctly for the Option list and Check-box list controls. The issue was a regression introduced in 16.2.2.	HMI > Form controls Also in: 16.2.4
Wrong index with non-permanent scan (SPR #74335) If a variable was configured for non-permanent scan and linked to a List box or a Combo box control (Selection index value), it was always forced to -1 when opening a mimic.	HMI > Form controls Also in: 16.2.4
Fatal error with Sql query (SPR #74326) A fatal error occurred when generating traces containing the % character.	HMI > Grid control Also in: 16.2.4
Several fixes & enhancements - Sql mode (SPR #74488, 74408, 74203, 74202, 74201, 73836) The list of fixes & enhancements includes: • A fatal error occurred after a Sql query if a parameter and a variable had the same name. • A false warning appeared at runtime when a query used a parameter with a default value. • Default values could not be used when a query used a parameter of type text. • Status variables were not updated properly. • A shortcut was not executed to trigger the grid. • A parameter was still appearing in the configuration dialog after having been deleted from the query.	HMI > Grid control
Sql mode with branch (SPR #73826) The context branch was not taken into account for a parameter when a variable was used as a parameter.	HMI > Grid control Also in: 16.2.1
Several fixes & enhancements (SPR #74935, 74759, 74687, 72038, 71248) The list of fixes & enhancements includes: • Fixed freezing when opening a mimic if the security device is not connected. • The SCADA Basic instruction CAMERADISPLAY mode CONNECT now correctly returns false when a camera is not connected. • Enhanced trace levels for improved logging and tracing. • Fixed failure on first connection to a device.	HMI > Onvif control
Property Use soft keypad (SPR #72292) The property Use soft keypad was not saved if the mimic or symbol was saved in Ascii format. In addition the Read only property was not correctly enforced if the Use soft Keypad property was enabled.	HMI > Textbox control
Low plotting precision (SPR #74881) When using the time shift capabilities of the trend viewer to compare data at different points in time, plotting precision was too low for proper analysis when the time shift was large (1 year for example).	HMI > Trend viewer Also in: 16.2.5, 15.2.11
Fatal error in Ascii format (SPR #74622) A fatal error could occur when loading a mimic in Ascii format if it contained a Web browser control.	HMI > Web browser control
Fatal error when navigating to Url (SPR #73756, 73730) Under some circumstances, a fatal error could occur when navigating to a Url due to the user-agent attribute being empty.	HMI > Web browser control Also in: 16.2.1
Image not resized in Excel cells (SPR #73809) A photo taken with SnapVue was not displayed correctly in the output report when in an Excel cell.	Instant Messaging > Smart Bot Also in: 16.2.1

Several fixes & enhancements (SPR #75059, 74764, 74346) The list of fixes & enhancements includes: • Networking configuration could not be changed when starting a station with the -k option, save failed. • When creating a server list, it was impossible to add a newly created station (regression introduced in 16.2.4). • Under some circumstances, a fatal error occurred after an invalid first message was received from a remote station. The issue occurred in scenarios of rapid connection and disconnection.	Networking Also in: 16.2.5
Station number higher than 255 (SPR #74113, 74110) When configuring networking using the wizard, it was not possible to set a station number higher than 255. In addition, if a network license was on a station with a station number higher than 255, other stations failed to take a license token.	Networking
Fatal error with HMI variables in expression (SPR #74416) A fatal error occurred on exit when using #_T or #_Q substitutions with HMI variables in an expression.	Real time data
Long expressions not loaded properly (SPR #71763) An expression was not loaded properly when longer than 2047 characters. It is now properly loaded with a max length of 32000 characters.	Real time data
Memory leak with expressions on variables (SPR #74028) A memory leak occurred with expressions having a result variable of type Text.	Real time data Also in: 16.2.5, 15.2.11
Support for scientific notation (SPR #72044) The following syntax elements can now be used in the variable property Format: • #e: Use exponential notation [-]d.dddE[+ -]dd[d] • #E: Use exponential notation [-]d.dddde[+ -]dd[d]	Real time data Also in: 16.2.4, 15.2.11
Fatal error using print function (SPR #73477, 66171) A fatal error occurred when loading a SCADA Basic script using the Print function with a string longer than supported.	Scripting > SCADA Basic Also in: 16.2.1, 15.2.14
Instruction ALARMDISPLAY mode SELENAME (SPR #74790) The mode SELENAME no longer worked as designed when called in the context of the desktop client.	Scripting > SCADA Basic Also in: 16.2.5, 15.2.11
Instruction CGET_BUFFER - SYS MAXARGSTRINGS not taken into account (SPR #73253, 73149) The instruction CGET_BUFFER did not take the directive SYS MAXARGSTRINGS into account, thus limiting its capability to returning a string of 2047 characters max.	Scripting > SCADA Basic Also in: 16.2.1, 15.2.8
Instruction CRONTAB mode NETWORKBROADCAST - Fatal error (SPR #74065) Under some circumstances, a fatal error occurred when the instruction CRONTAB mode NETWORKBROADCAST was called.	Scripting > SCADA Basic Also in: 16.2.5, 15.2.11
Instruction EMAIL mode ADDPROFILE - Max password length (SPR #74581) The max length of a user password passed as parameter is now 128 (was 18).	Scripting > SCADA Basic Also in: 16.2.5
Instruction PUT_BUFFER - SYS MAXARGSTRINGS not taken into account (SPR #73253) The instruction PUT_BUFFER did not take the directive SYS MAXARGSTRINGS into account, thus limiting its capability to handling the argument Data as a string of 2047 characters max.	Scripting > SCADA Basic Also in: 16.2.1, 15.2.10
Instruction REGION mode SETREGION - Mimic open in wrong region (SPR #74839) A mimic would not open in the correct region when the instruction REGION mode SETREGION was executed on startup.	Scripting > SCADA Basic Also in: 16.2.5

Instruction SQL_COMMAND - SYS MAXARGSTRINGS not taken into account (SPR #73253) The instruction SQL_COMMAND did not take the directive SYS MAXARGSTRINGS into account, thus limiting its capability to handle the argument <i>SqIcmd</i> as a string of 2047 characters max (modes EXECREADER, EXECSCALAR, EXECNONQUERY).	Scripting > SCADA Basic Also in: 16.2.1, 15.2.10
Instruction TREEVIEW mode SAVE - Not all changes saved (SPR #73764) Changes made using modes SETTEXT and SETUSERDATA were not saved when using the SAVE mode.	Scripting > SCADA Basic
Instruction TREND mode SET_VISIBLE (SPR #74672) It did not work for trace number 0.	Scripting > SCADA Basic Also in: 16.2.5, 15.2.11
Instruction VARIABLE mode THRESHOLD_SETVALUE or THRESHOLD_GETVALUE - Fatal error (SPR #74990) Under some circumstances, a fatal error occurred when a variable was modified after using the instruction VARIABLE mode THRESHOLD_SETVALUE or THRESHOLD_GETVALUE. The issue was a regression introduced in 16.2.0.	Scripting > SCADA Basic
Instruction WEBBROWSER mode EXECUTESCRIPT fatal error (SPR #74565) A fatal error occurred with instruction WEBBROWSER mode EXECUTESCRIPT when executing a script exceeding the max length of an STR.	Scripting > SCADA Basic Also in: 16.2.5
Alarm archive settings and SnapVue (SPR #73810) If the setting <i>Log only alarm on/off changes</i> was activated for the archives, the alarm filter was not taken into account correctly in SnapVue.	SnapVue Also in: 16.2.1
Impossible to send a command (SPR #73804) When using the <i>Display mimic</i> or <i>Display symbol</i> actions in SnapVue, commands based on animations were not send.	SnapVue Also in: 16.2.1
Authentication failed loop (SPR #73587) Under some circumstances, for example after a password change or a different project was started, the next login attempt led to an endless loop of authentication failed errors.	Web Server Extensions Also in: 16.2.4
Delayed response for a trend request (SPR #74052) If a variable was not trended, the response came only after the time-out instead of an immediate response indicating that the variable is not trended. The same occurred when no record existed for the requested time.	Web Server Extensions > Web Services Toolkit Also in: 16.2.2, 15.2.11
Alarm viewer - Incorrect column size (SPR #74797) Column sizes were different in WebVue and the desktop app.	Web Server Extensions > WebVue
Animation Images on register not working (SPR #73888) The <i>Images on register value</i> animation blocked the mimic in WebVue.	Web Server Extensions > WebVue Also in: 16.2.2
Animation Send bit with option Handled (SPR #73793) An animation <i>Send bit</i> with the sending mode <i>Handled</i> was not triggered if associated with a group of drawing elements or with a symbol. The issue was a regression introduced in 16.0.0.	Web Server Extensions > WebVue Also in: 16.2.1
Combined animations Send and Single axis positioning (SPR #73597) An animation <i>Send Bit</i> or <i>Send register</i> combined with an animation <i>Single axis positioning</i> did not work properly.	Web Server Extensions > WebVue Also in: 16.2.1
Concurrent historical requests not handled correctly (SPR #74466) Under some circumstances, when triggering multiple requests at the same time by changing the time period multiple times in a row for example, the curves could be cleared in a Trend viewer.	Web Server Extensions > WebVue Also in: 16.2.4
Fatal error on the Web backend station (SPR #73639) Under some circumstances, a fatal error occurred on the Web backend station. The issue occurred when executing animations on a tree view if the animations consisted in an animation <i>Link open</i> with the property <i>Close mimic caller</i> set and at least one other animation after.	Web Server Extensions > WebVue Also in: 16.2.1

Fatal error while navigating mimics (SPR #73242) Under some circumstances, a fatal error of the Web back end station could occur while navigating mimics in a WebVue client. The issue occurred due to a race condition leading to executing an animation in a mimic that is already closed.	Web Server Extensions > WebVue Also in: 16.2.1, 15.2.10
Focus not given to a mimic already open in WebVue (SPR #73665) Clicking an animation Link open did not give the focus to a mimic that was already opened.	Web Server Extensions > WebVue Also in: 16.2.0
GDI leak in Form controls (SPR #74936) Fixed a GDI leak when using the Check box, List box and Option list controls.	Web Server Extensions > WebVue Also in: 16.2.5
Image not loaded (SPR #74103) An image with a filename containing the character '%' was recognized as a substitution by the web browser and did not load properly in WebVue. Such file is now renamed on-the-fly to remove the offending character.	Web Server Extensions > WebVue Also in: 16.2.4
Image scaling (SPR #73710) If an image was changed due to an animation, its scaling could be incorrect.	Web Server Extensions > WebVue Also in: 16.2.0
Included mimic behavior (SPR #73725) Fixed included mimics behavior when piling including mimics one on top of the other.	Web Server Extensions > WebVue Also in: 16.2.1
Incorrect position of symbols with Firefox (SPR #73806) When using Firefox in Full screen mode, symbols were not positioned correctly in a mimic.	Web Server Extensions > WebVue Also in: 16.2.4
Instruction ALARMDISPLAY mode SELECNAME did not work in online mode (SPR #73796) The instruction returned an empty string when used in a Web context.	Web Server Extensions > WebVue Also in: 16.2.1
Instruction WEBVUE mode MULTIMEDIA - Failed to beep (SPR #73795) No sound was played.	Web Server Extensions > WebVue Also in: 16.2.2
Instructions LISTBOX, COMBOBOX, CHECKLIST, OPTIONLIST - TREEVIEW modes SETSELECTEDINDEX and SETUSERDATA (SPR #73089) The form control selection was not cleared in WebVue when using SETSELECTEDINDEX mode with <i>Index</i> value -1. In addition, the variable linked to the <i>Index value</i> of a form control was not updated by the script executed in a Web context.	Web Server Extensions > WebVue Also in: 16.2.2
Log viewer UX/UI glitches (SPR #74475) The list of fixes & enhancements includes: - The Date & time selection dialog box was closed automatically after being opened. - The Comment dialog box was closed automatically after being opened. - The Filter dialog had an incorrectly large height.	Web Server Extensions > WebVue Also in: 16.2.4
Popup position (SPR #74792) The default position of a popup mimic in WebVue if no position set by configuration was different than that in the desktop app.	Web Server Extensions > WebVue
Show window list (SPR #74899) The <i>Show window list</i> task did not work properly.	Web Server Extensions > WebVue
Substitution string in mimic names for Tab (SPR #74313) Opening a mimic in a tab failed if its name was defined using a substitution string such as #B1.	Web Server Extensions > WebVue Also in: 16.2.4

Trend viewer blank when printed (SPR #75027) The print function of the Trend viewer printed a blank page.	Web Server Extensions > WebVue Also in: 16.2.5
Trend viewer cursor displayed N/A instead of actual value (SPR #73475, 73474) A Trend viewer displayed N/A in the legend and at the cursor instead of the actual value if no record was stored during the displayed time period.	Web Server Extensions > WebVue Also in: 16.2.1
UI frozen (SPR #73991) The WebVue UI could freeze after clicking on a small ellipse graphic element or clicking close to the edge of such element.	Web Server Extensions > WebVue Also in: 16.2.4, 15.2.11
Unit not refreshed dynamically (SPR #74193) Upon configuration change, the unit of a variable was not refreshed dynamically in the Trend viewer.	Web Server Extensions > WebVue Also in: 16.2.4
Variable value formatting in Trend viewer (SPR #73994) The configured variable value format is now applied correctly in the Trend viewer legend.	Web Server Extensions > WebVue Also in: 16.2.2
WebVue - Incorrect position for popup mimics (SPR #73010) A popup mimic was always open at position 0,0 of the parent mimic. The configured position is now taken into account.	Web Server Extensions > WebVue Also in: 16.2.4
WebVue compatibility with iOS 17 onward (SPR #74342) WebVue now renders correctly on mobile devices running iOS 17 onward.	Web Server Extensions > WebVue Also in: 16.2.4
Wrong popup mimic width (SPR #74836) When a popup was included at the right edge of its parent mimic, its width was too large.	Web Server Extensions > WebVue
Wrong position for popups in map control (SPR #70140) Fixed position of a popup mimic when opened via a Symbol marker in a Map Control.	Web Server Extensions > WebVue
Add interval dialog no longer pre-filled (SPR #74582, 74210) When creating a new interval by dragging the mouse on the Calendar or Standard Week view, the <i>Add interval</i> dialog was no longer pre-filled with the time period dragged by the user. The issue was a regression introduced in 16.2.1.	WebScheduler Also in: 16.2.4
Fatal error when saving Cron triggers (SPR #73469) A fatal error of the Web backend station occurred when saving a Cron trigger with the WebScheduler.	WebScheduler Also in: 16.2.1

3. Critical fixes

SNMP v3 not working properly (SPR #74613, 74611) SNMP v3 no longer worked properly if authentication and encryption were enabled. The issue was a regression introduced in 16.2.1.	Data Acquisition > SNMP Manager Also in: 16.2.5
Instruction TOS - Wrong return type (SPR #74369) Fixed an incorrect return type for the TOS instruction. A value of type Double was returned instead of a type Single. The issue was a regression introduced in 16.2.1.	Scripting > SCADA Basic Also in: 16.2.5
Instructions EXPORT, EXPORT_TREND, EXPORT_LOG - Memory leak with data export (SPR #73772) A significant memory leak occurred when using the instructions EXPORT, EXPORT_TREND, EXPORT_LOG for exporting data.	Scripting > SCADA Basic Also in: 16.2.4

Alarms missing in Alarm viewer (SPR #75239, 75209) Under some circumstances, some alarms were not displayed in the Alarm viewer.	Web Server Extensions > WebVue Also in: 16.2.5
Fatal error in the Web backend with missing variable (SPR #74532, 74428) A fatal error occurred on the Web backend if an animation was configured with a variable that did not exist.	Web Server Extensions > WebVue
Instruction CHECKLIST mode GETSTATE - Result not consistent (SPR #74232) Under some circumstances, the instruction could return incorrect state values.	Web Server Extensions > WebVue
4. Enhancements	
Alarm timestamping on masking (SPR #74544) When an alarm is masked by dependency on another variable, the timestamp of the other variable and its source (SV or PLC) are now used as the timestamp and source for the masking event. The same applies to an alarm unmasking event.	Alarms Also in: 16.2.5, 15.2.11
New audit counters (SPR #74147) New audit counters are available to monitor the time spent processing internal messages.	Audit Also in: 16.2.5, 15.2.11
New RCC parameters & reconnection fix (SPR #73858, 73856) New parameters to allow ignoring qualities: - Added parameter <i>SetHeldToNS</i> to the RCC section to allow ignoring the NS WD quality. - Added parameter <i>SetSuspectToNS</i> to the RCC section to allow ignoring the NS FMT quality. Under some circumstances, reconnection of an RCC would fail after a disconnection.	Communication interfaces > ICCP Also in: 16.2.1
Several fixes & enhancements (SPR #74302, 74267) The list of fixes & enhancements includes: - It is now possible to map the quality (Valid, Held, Suspect, Not Valid) of a variable to an extended attribute. - Connection errors could occur when simultaneous connections were established if PcVue was configured as a bidirectional ICCP interface.	Communication interfaces > ICCP Also in: 16.2.4
Write-only IOA (SPR #74879, 74332) A new property is available to configure a write-only IOA, reading is therefore disabled.	Communication interfaces > IEC 60870-5-104 Outstation
Several fixes & enhancements (SPR #74608, 74452, 73790) The list of fixes & enhancements includes: - Possibility to publish the value of bit and alarm variables as numerical values. - Fixed out-of-range values defined in the configuration file; the default value is now taken into account. - Fixed management of non-ANSI formatted text.	Communication interfaces > MQTT Pub-Sub
OPC server settings changed to policy (SPR #74914) To highlight the role of some settings in the overall system security, settings of the OPC DA server component have been replaced by security policies you can configure.	Communication interfaces > OPC Server
Parameters length extension (SPR #73792) The max length of a parameter value is now 4096 characters.	Communication interfaces > Sql connections Also in: 16.2.1

Several fixes & enhancements (SPR #74705, 74541, 74435, 74426, 74405, 74360, 74095) The list of fixes & enhancements includes: - Grouped rows are now automatically added when a calculated column is created and removed when it is deleted. - Navigation between calculation columns is now simpler. - Added verification on the <i>Period</i> property in the Application Explorer. - Added the possibility to disable identities and calculated columns. - Brackets were missing from column names in the <i>Query generation wizard</i>.	Communication interfaces > Sql connections
Modelling of Sql connections Predefined Sql query configuration elements can now be added to a template, including Sql connections and Sql queries.	Configuration Environments > Application Architect
Several fixes & enhancements (SPR #74844, 74700, 74670, 74575, 74498) The list of fixes & enhancements includes: <i>FileItem</i> and <i>FileItemAttribute</i> names must now respect the Xml syntax. - It is now possible to define Map positioning animations in the animation control. The display description shown as a tooltip on the animation can also be set. - Values for <i>Sql Read</i> and <i>Sql Write</i> were not controlled when they were defined by a parameter in a template.	Configuration Environments > Application Architect
Improved UX for networking configuration (SPR #74344, 74293, 74240) Enhancements to the networking configuration, including: - Improved filtering of stations when configuring associations and lists. - Improved handling of context menus and tasks in the left-side panel. - Improved tracing of configuration inconsistencies.	Configuration Environments > Application Explorer Also in: 16.2.4
Variable creation with a branch (SPR #73527) It is now possible to create a variable including the "." character, it automatically creates the corresponding branch if it does not already exist.	Configuration Environments > Application Explorer
Originator customization The OrIdent field can now be customized as part of controls.	Data Acquisition > IEC 61850 Client
Several fixes & enhancements (SPR #74740, 74197, 74194, 74189, 74188, 73939) The list of fixes & enhancements includes: - Added support for importing Scl files with extensions .iid, .scl and .sed. - A fatal error occurred with conversions from hex to ascii. - A fatal error occurred when an SGCB was empty and trying to map a variable in the mapping box.	Data Acquisition > IEC 61850 Client
Added current values in the Mapping dialog The current value of OPC UA data is now displayed in a column of the Mapping dialog. Data are refreshed based on asynchronous browsing services.	Data Acquisition > OPC UA Client
Alarm enumeration support (SPR #74368) Support for alarm enumeration based on ENUMALA.dat.	Data Acquisition > OPC UA Client Also in: 16.2.5
Bit extraction (SPR #73640) It is now possible to extract a bit from any numerical or byte string value by using the keyword Wordbit(x,y) in the <i>Field</i> property of a variable. Where x is the byte offset and y is the bit offset (0 to 7).	Data Acquisition > OPC UA Client Also in: 16.2.1
Control of max length for I/O text variables (SPR #74778) Improved control over I/O text variables, the max length is now checked against the size of the frame at the time of mapping.	Data Acquisition > Other built-in drivers Also in: 16.2.5
Modbus Ip - 32-bit float little-endian (SPR #73903) Added support for 32-bit floating-point with little-endian byte order and little-endian byte order with swapped words.	Data Acquisition > Other built-in drivers Also in: 16.2.1

S7 Ip Industrial Ethernet - Several fixes & enhancements (SPR #74686, 74503, 71808) The list of fixes & enhancements includes: - Added missing property in the dialog box. - Added support for enabling/disabling source timestamping using SCADA Basic. - Added support for multiple networks, each network must have its device offset property set based on the number of devices in the previous network.	Data Acquisition > Other built-in drivers
Saia Ip - Several fixes & enhancements (SPR #74396) The list of fixes & enhancements includes: - A fatal error occurred when using the SAIA driver after receiving a specific message. - Added new frame type to retrieve PLC status.	Data Acquisition > Other built-in drivers Also in: 16.2.4
Several fixes & enhancements (SPR #74510, 73751, 73694, 73693) The list of fixes & enhancements includes: - SNMP Manager licensing is now supported on a network license. - Hexadecimal values can now be converted automatically into ASCII characters with new extraction field functions HexStrAscii([x\$y]), HexStrIntValue(x\$y), HexStrBitValue(x\$y), RawStrIntValue(x\$y) and RawStrBitValue(x\$y). - Fix for the <i>Write community string</i> property.	Data Acquisition > SNMP Manager Also in: 16.2.5
Improved support for custom system display scale factor (SPR #75006, 74721, 74341) Several UI/UX fixes and enhancements to better support custom scale factor setting: - Fixed sizing issue with graphic controls - Fixed missing content with Form controls - Fixed Legend tab in the Trend viewer	HMI Also in: 16.2.5, 15.2.11
More substitutions to display user information (SPR #69783) Added new user-related substitutions for alarm and log viewers: #U2D: User2 display name #U2E: User2 title #U2F: User2 first name #U2L: User2 last name #U2M: User2 email address #U2P: User2 phone number #U2t: User2 name #U2T: User2 description #UD: User display name #UE: User title #UF: User first name #UL: User last name #UM: User email address #UP: User phone number #Ut: User name #UT: User description These substitutions can be used directly for on-screen display and do not need to be stored in archives (e.g. first name, last name, email, etc.).	HMI
Comment used as runtime tooltip The <i>Comment</i> property is now available as a runtime tooltip for all animations. Until now, this behavior was only supported for <i>Send</i> animations.	HMI > Animations
Interlock condition (SPR #73859) Added support for the Interlock condition on the Web browser command animation.	HMI > Animations Also in: 16.2.2
Support for simulation-related properties (SPR #74981) Added support for simulation-related properties in the Grid control.	HMI > Grid control
Keyboard multi-selection (SPR #74151) Support for multi-selection using the Ctrl and Shift keys.	HMI > Log viewer Also in: 16.2.4

New map service providers (SPR #71852) Added support for the following map providers: - GaoDeMap - GaoDeSatelliteMap - GaoDeHybridMap - AMap AMap can be added in the MapConfig.xml file using an API key, it is not supported without an API key.	HMI > Map control
Instruction WEBBROWSER mode EXECUTESCRIPT - Support for lengthy scripts (SPR #74604) Added support for executing scripts of up to 2047 characters.	HMI > Web browser control Also in: 16.2.5
Instruction WEBBROWSER mode SETCOLORSCHEME (SPR #73755) New SCADA Basic mode to set dark/light mode.	HMI > Web browser control
Several fixes & enhancements (SPR #73871, 73699, 73510) The list of fixes & enhancements includes: - Fixed log list event mask-unmask alarms in actions. - Fixed solid and gradient color for actions. - Fixed fatal errors in Button, Table and List components. - Fixed fatal error in timer condition. - Improved naming for some component properties. - Improved menu and components pagination. - Allow more characters for components Name field. - Allow use of internal variables in Counter operation. - Allow up to 100 variables in send recipe. - Added read-only property for check lists. - Added read-only property for form components. - Added empty image and text for collection components. - Added color for Button components. - Speed up bots execution. - Optimized system bots creation. - Optimized variable removal.	Instant Messaging
Smart Bots - Several fixes and enhancements (SPR #74223, 74222, 74164, 74048, 74047, 74046, 74036, 74030) The list of fixes & enhancements includes: - Ability to generate and process QR codes. - Improvements to triggers, events, conditions, historical data requests and schedules. - Several fixes related to alarm display, date & time operations, Excel data type conversions, and Word document generation.	Instant Messaging > Smart Bot
Improved simulation of variables New variable simulation properties and settings to support the SimuLock component.	Real time data
Support for #_T and #_Q in expressions (SPR #74325) Added support for substitutions #_T and #_Q in expression on variables and expressions in animations.	Real time data Also in: 16.2.5
Text and binary attributes in expressions (SPR #74107) Text attributes can now be used in expressions (syntax: variableName.TATT3# to variableName.TATT16#), and also the binary attribute as a numerical (syntax: variableName.BATT#).	Real time data
Instruction CLIPBOARD mode COPY (SPR #74331) The new instruction CLIPBOARD mode COPY copies a string passed as parameter to the user's clipboard.	Scripting > SCADA Basic Also in: 16.2.4
New SCADA Basic instructions for numeric rounding (SPR #73695) New SCADA Basic instructions are available for numeric rounding: - Rounding to the nearest integer value: ROUND(Double) - Rounding up to the nearest integer value: CEIL(Double) - Rounding down to the nearest integer value: FLOOR(Double) Return type: Double.	Scripting > SCADA Basic Also in: 16.2.1

MaxNumberExceeded always false (SPR #74880, 73825) When calling <i>QueryTrendRequest</i> and <i>ExecuteTrendRequest</i> of the <i>HistoricalData</i> web service, the <i>MaxNumberExceeded</i> flag was always returned with value <i>False</i> even if more records were available. It is now set to <i>True</i> in that case. It was a documented feature limitation.	Web Server Extensions > Web Services Toolkit Also in: 16.2.1, 15.2.11
Animation with option Direct send (SPR #74786) The Direct send behavior is now supported for the animations Send register and text variables.	Web Server Extensions > WebVue Also in: 16.2.5
Instructions ALARMDISPLAY and LOGDISPLAY (SPR #74597, 74595, 74379, 74322, 74298, 74238, 74070, 73943) Improved support when executed in a Web context, the following modes are now supported: • GETCOLUMNWIDTH_ASYNC • SETCOLUMNWIDTH • GETSELECTEDLINES_ASYNC • GETVISIBLELINES_ASYNC • GETALLLINES_ASYNC	Web Server Extensions > WebVue Also in: 16.2.5
New setting MaxIncomingWebSocketMessageSize (SPR #74798) Added new setting <i>MaxIncomingWebSocketMessageSize</i> allowing the <i>GraphicalData</i> Web service to use more memory. This setting can be configured with the Web Deployment Console in the <i>GraphicalData</i> service settings. Default value: 64 kb, Max value: 128 kb The setting should be set to a value higher than default when a SCADA Basic script is used to filter an Alarm or Log viewer with a large GPConf.dat file configured. If the value of the setting is too small, a WebVue client could freeze when executing a filtering script.	Web Server Extensions > WebVue Also in: 16.2.5
New substitutions for the Alarm and Log viewers (SPR #73643) Added support for new substitutions in the Alarm and Log viewers: • #E1, #E2, #N2, #T1, #T2 for the Alarm viewer. • #E1, #E2, #T1, #T2, for the Log viewer.	Web Server Extensions > WebVue Also in: 16.2.1
New System toolbar look & feel Improved look & feel of the WebVue System toolbar.	Web Server Extensions > WebVue
Selection for Form controls (SPR #74208) WebVue now supports the initialization of the selection by index or user data variables for the following Form controls: Combo box, List box, Option list.	Web Server Extensions > WebVue Also in: 16.2.5
Tooltips on animations (SPR #73776) WebVue now supports the use of tooltips on any animation.	Web Server Extensions > WebVue Also in: 16.2.2
Visibility animations for Form controls (SPR #74885, 74557) WebVue now supports the Visibility animations on Form controls.	Web Server Extensions > WebVue
Improved responsiveness of the schedule view (SPR #74025, 71361, 61193) The Schedule view is now more responsive when displaying both a single schedule and multiple ones. In particular, the width of the grid is adapting to the viewport, the horizontal scrollbar is no longer necessary and alignment issues are fixed.	WebScheduler Also in: 16.2.5

5. Performance

Navigation in the variable hierarchy (SPR #73727) Improvement of the time it takes to browse and display sub-branches in the Application Explorer and the variable selector. The change is significant when several thousand sub-branches are to be displayed (from several minutes to a couple of seconds).	Configuration Environments > Application Explorer Also in: 16.2.1
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Minimize the number of messages (SPR #73988, 73683) Improvements to internal diagnostics messages to minimize the flow of messages and maximize data change throughput.	Data Acquisition > IEC 60870-5 Client Also in: 16.2.4, 15.2.10
Reduced time to refresh variables (SPR #74992, 74124, 74019, 73988, 73683) Significant reduction of the load for refreshing variable VTQ, with gains on the CPU resources and the time it takes to refresh variables on large projects. It includes changes in: - Internal messages processing - System variables updates - Traces generation This improvement follows a regression in performances introduced in 15.2.0 and goes beyond in terms of gains.	Data Acquisition > IEC 60870-5 Client Also in: 16.2.4, 15.2.11
Optimization of re-subscriptions (SPR #73650, 72989) When using redundant OPC UA servers, a subscription is created upon switchover only if necessary to avoid reaching the max number of subscriptions enforced by the OPC UA server.	Data Acquisition > OPC UA Client Also in: 16.2.0
Reduced memory footprint for trend (SPR #74647, 74172) Memory buffers are no longer allocated on stations that only consume trend data, as opposed to stations that produce trend data for archiving. This change can significantly reduce the memory footprint on a typical client station, and also reduces the time it takes to start a project.	Historical data Also in: 16.2.5, 15.2.11
Requests on ODBC database (SPR #74218) Log and trend viewers now take into account the useful max number of records, resulting in smaller and faster requests.	HMI Also in: 16.2.4
Combo box - Time to switch language (SPR #75017, 74535) Improvement of the time it takes to switch language when a combo box contains a large number of items (several hundreds). In worst case scenarios, the UI could freeze for several seconds.	HMI > Form controls Also in: 16.2.5, 15.2.11
Performances when sorting combo box (SPR #75043) Improved performances of the Combo box sorting.	HMI > Form controls
Improve memory usage on server stations (SPR #73442) To minimize the memory footprint on server stations, client subscriptions are now deleted as soon as a client station shuts down.	Real time data Also in: 16.2.1, 15.2.10
Improved time to update variables (SPR #74545) Enhancements to how data changes are processed to improve the time it takes to update variables. The improvement can be significant on large projects.	Real time data Also in: 16.2.5, 15.2.11
Improved time to subscribe variables (SPR #73834) Reduced time to receive a response to subscribe with the Real time data web service. Subscriptions are now handled by block and can be used for larger sets of variables at once (typically several thousands variables). This change has visible effects if you are using a web services client developed in house, or a third party product taking advantage of the Web Services Toolkit such as Micromedia Alert or Dream Report.	Web Server Extensions > Web Services Toolkit Also in: 16.2.1, 15.2.13
Improved time to render markers in a Map Control (SPR #74462) The time to render Symbol markers is improved, making the Map control more responsive.	Web Server Extensions > WebVue

6. Audit & diagnostic

New system variables for product version (SPR #68901) Added system variables to retrieve the product version: - System.LocalHost.Environment.ProductVersion - System.<StationName>.Environment.ProductVersion	Audit Also in: 16.2.1
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Improved tracing (SPR #74811) Improved control over trace verbosity: - Added trace Enable variables at both LCC and RCC levels. - The second field of the extended attribute can be set to 'T' for the Trace Enable variable. - An LCC status variable can be created using: ICCP/T/<NetName>/<LCCName>. - An RCC status variable can be created using: ICCP/T/<NetName>/<LCCName>/<RCCName>. - Log level of several trace messages set to INFO. - Improved log messages.	Communication interfaces > ICCP
Verbose traces while generating (SPR #74912) It is now possible to reduce the number of traces by enabling the option <i>Display only important messages</i> .	Configuration Environments > Application Architect
Trace if incorrect comm.dat (SPR #72091) Added a trace to indicate if the comm.dat configuration is incorrect.	Data Acquisition > Other built-in drivers
HDS loss of tracing on fatal error (SPR #74758) Fix loss of traces after a fatal error occurred in PcVue or the HDS did not exit correctly. The new file was not created, and the previous one was no longer filled in.	Historical data
Configuration errors on loading (SPR #74968) From now on, an error message is displayed if errors are detected while loading the graphic control configuration file.	HMI > Bim control Also in: 16.2.5

7. Installation

OPC UA Gateway version 1.6.1 Update of the installation package of the OPC UA Gateway available in the Add-ons & Tools section of the DVD.	Add-ons and Tools Also in: 15.2.11
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8. Security

SB2025-2 - Vulnerable add-on updated Update of the following third-party add-on: OPC UA Gateway See our Security bulletin for more information.	Add-ons and Tools Also in: 15.2.11
Upgrade New settings to control interfaces exposure Added new settings to control the exposure of multiple interfaces including the OPC DA server, DDE client & server, and COM servers. Defaults for these new settings ensure a behavior similar to past releases. Securing interfaces require adjusting these new settings.	Communication interfaces
SB2024-8 - Null pointer dereference vulnerability (SPR #75116) The following vulnerability is fixed. It affects the ICCP interface: CVE-xxxx-x (in progress) - Denial-of-service vulnerability- Affects all versions since 15.1. See our Security bulletin for more information.	Communication interfaces > ICCP Also in: 16.2.5, 15.2.12
SB2025-3 - Certificate validity not properly verified (SPR #70331) The following vulnerability is fixed: CVE-2025-4384 - Improper validation of certificate expiration See our Security bulletin for more information.	Communication interfaces > MQTT Pub-Sub Also in: 16.2.5, 15.2.12
SB2024-8 - Null pointer dereference vulnerability (SPR #74471) The following vulnerability is fixed. It affects the IEC 61850 client driver: CVE-xxxx-x (in progress) - Incorrect message processing in the Triangle MicroWork's IEC 61850 Client library - Affects all versions since 10.0. See our Security bulletin for more information.	Data Acquisition > IEC 61850 Client Also in: 16.2.4, 15.2.11

SB2024-2 - Vulnerable library updated Update of the following third-party library: Net-SNMP See our Security bulletin for more information.	Data Acquisition > SNMP Manager Also in: 16.2.1
SB2024-3 - Vulnerable libraries updated Update of the following third-party libraries: - Microsoft.Identity.Client - Net-SNMP - Sentinel SuperPro - System.Net.Http See our Security bulletin for more information.	General Also in: 16.2.1
SB2024-5 - Vulnerable libraries updated Update of the following third-party libraries: jQuery See our Security bulletin for more information.	General Also in: 16.2.2
SB2024-7 - Vulnerable libraries updated Update of the following third-party libraries: - Bootstrap - Dojo/Diji - jQuery - libuv - libxml2 - mbed-TLS - OpenSSL - Sentinel Super Pro - zlib See our Security bulletin for more information.	General Also in: 16.2.4
SB2025-1 - Vulnerable libraries updated (SPR #74587) Update of the following third-party libraries: - DotNetZip - expat - gRPC - libpng - mbed-TLS - Mosquitto - OpenSSL - qt - zlib See our Security bulletin for more information.	General > Documentation Also in: 16.2.5
SB2024-6 - Vulnerability of the Web backend (SPR #74150) The following vulnerability is fixed. It affects the Web back end: CVE-2024-12057 - Insertion of sensitive information into a log file - Affects versions 15 and 16. User credentials (login & password) are inserted into log files when a user tries to authenticate using a version of a Web client that is not compatible with that of the Web back end. See our Security bulletin for more information.	General > Logging and tracing Also in: 16.2.4, 15.2.11
New permission for security-related configuration Added new 'Security administration' permission in profiles to control who can adjust sensitive security-related configuration.	General > User management
Support for Microsoft OLE DB Driver for SQL Server version 19 To manage connections to SQL Server databases, the HDS now supports the Microsoft OLE DB Driver for SQL Server version 19 (MSOLEDBSQL).	Historical data
SB2024-4 - Improperly implemented security check in OAuth web service (SPR #73326) The following vulnerability is fixed: CVE-2024-12056 - Improperly Implemented Security Check for Standard. See our Security bulletin for more information.	Web Server Extensions Also in: 16.2.2

9. Other fixes & enhancements

SPR #69002, 72434, 73118, 73203, 73412, 73522, 73545, 73552, 73668, 73703, 73913, 74034, 74256, 74259, 74683, 74762, 74858	
SPR #75157, 75163	Also in: 17.0.0, 16.2.5
SPR #17382, 74357, 74370, 74401, 74472, 74609, 74646, 74751, 74799, 74890, 74895, 74907, 74978, 75048	Also in: 16.2.5
SPR #74065, 74124, 74282, 74315, 74649, 74992	Also in: 16.2.5, 15.2.11
SPR #73407, 73633, 73993, 74381, 74536	Also in: 16.2.4
SPR #74139	Also in: 16.2.4, 15.2.11
SPR #74117	Also in: 16.2.3
SPR #74125	Also in: 16.2.3, 15.2.11, 12.0.30
SPR #73558, 73884, 73894, 73978, 73983, 73986, 74009, 74012, 74013, 74051	Also in: 16.2.2
SPR #73387	Also in: 16.2.2, 15.2.11
SPR #73504, 73642, 73645, 73667, 73731, 73736, 73783, 73850	Also in: 16.2.1
SPR #73705	Also in: 16.2.0
SPR #68456, 74657	Also in: 15.1.0, 15.0.2

8. Known Issues

Audit counter mean values are inaccurate (SPR #65251, PCV-2801) Calculation of mean values is wrong for audit counters (error every 27 hours).	Audit 16.3.0 Also in: 17.0.0, 15.2.0, 15.1.0, 15.0.0, 12.0.7
[Fixed] Deadlock with the Xml Generic Import (SPR #76087) Since 16.3.0, a deadlock can occur when importing variables other than 'Internal'. The issue manifests itself with a freeze during Application Architect generation or synchronization, while using a Smart Generator or the Xml Generic Import directly with the XmlImporter.exe command line. A forced exit of Sv32.exe occurs after the 10-minute watchdog timeout. Recommendation: Product users who cannot wait for the fix should roll-back to 16.2.5. Fixed in 16.3.3.	Configuration Environments 16.3.0
[Fixed] Failure to re-subscribe BACnet COV (SPR #76089, 75445) Since 16.3.0, BACnet COV re-subscriptions are not handled correctly, leading to a situation where BACnet variables are no longer monitored nor refreshed. Because the issue is related to re-subscription, it becomes obvious only after some time, once a re-subscription is necessary (typically 1 hour). Recommendation: A workaround exists. The issue does not exist in the legacy COV implementation. While it is no longer the default, it can be re-activated by adding the following key in the Etc\experimental.ini file: <pre>[BACnetStackCov] Enabled=1</pre> Fixed in 16.3.3.	Data Acquisition > BACnet Client 16.3.0
Supported operating systems for the KNX Add-on (PCV-2801) The KNX add-on is only supported on the following operating systems, with the exclusion of any virtual environment: - Windows 7 SP1 (x64), - Windows Server 2008 R2 SP1 (x64).	Data Acquisition > KNX 16.3.0 Also in: 17.0.0, 15.2.0, 15.1.0, 15.0.0, 12.0.7, 11.2.05001
[Fixed] Deferred attributes no longer archived (SPR #76007, 75523) The value of deferred extended attributes is no longer recorded as part of a log list if using proprietary archive. [Fixed in: 15.2.13, 16.3.3, 17.0.0]	Historical data 16.3.0 Also in: 16.2.5, 15.2.11
Upgrade Regression in blinking color rendering (PCV-3571) An issue in the handling of blinking colors causes an incorrect rendering of the corresponding graphical element. It only affects drawing elements. An alarm or log viewer displaying blinking texts is not affected. The issue is a regression introduced in 16.3.6. Fixed planned in 16.3.7.	HMI 16.3.6
SQL filtering on HMI variables (SPR #65903, PCV-2801) When using the Grid control in variable tracking mode, the Sql syntax cannot be used to filter HMI variables.	HMI > Grid control 16.3.0 Also in: 17.0.0, 15.2.0, 15.1.0, 15.0.0, 12.0.7
[Fixed] Client/Server networking instability if recent hardening is enabled (SPR #76197, 76112, 75016) If the security fix described in security bulletin SB2025-4 is enabled, networking packets can be falsely detected as malformed, causing a server station to force a disconnection. This issue leads to a situation where a client station may not be able to stay connected to a server station in a stable way. Recommendation for 16.3.1, 16.3.2, 15.2.12 and 12.0.31: The issue does not manifest itself if the recent hardened connection mechanism is disabled. To disable this mechanism, the security alteration setting named 'Networking.Allow security altering configuration options' must be checked and the property 'Allow stations with altered security' on Nodes must be set to Yes. Fixed in 17.0.0, 16.3.3, 15.2.13 and 12.0.32. The security bulletin SB2025-4 is updated (Rev B).	Networking 16.3.1 Also in: 15.2.12, 12.0.31

BeforeClose script not triggered (SPR #68418, PCV-2801)

Since version 12.0.7, the SCADA Basic function called upon closing a mimic was not correctly triggered when the mimic was closed via SCADA Basic.
 [Edit: Fixed in 12.0.20 and 15.0.0 for PcVue desktop]
 A fix for WebVue is planned for a later release.

Scripting > SCADA Basic

16.3.0

Also in: 17.0.0, 15.2.0, 15.1.0, 12.0.20

[Fixed] Map tiles not loaded in the Map control in WebVue (SPR #76731)

Following the security fixes described in SB2026-2, the map tiles are no longer loaded when using the Map control in WebVue.
 If you encounter the issue, you can apply the following fix manually:
 1/ Open the folder containing the website (by default., c:\inetpub\SV Website)
 2/ Edit the file "web.config" with administrative privileges
 3/ Look-up for the line "<add name='Content-Security-Policy' value='default-src 'self'...'>
 4/ At the end of the line, replace **img-src 'self' data;** by **img-src 'self' data:https;** (mind the semicolon at the end)
 5/ Save the change and restart IIS
 Fixed in 16.3.4 and 17.0.0.

Web Server Extensions > WebVue

16.3.4

Also in: 15.2.14

Drag handling with Firefox (SPR #70455, PCV-2801)

If a position animation with *Cursor mode* enabled is used on an image, the user needs to click twice in Firefox to perform the action.

Web Server Extensions > WebVue

16.3.0

Also in: 17.0.0, 15.2.0, 15.1.0, 15.0.0, 12.0.7

Known limitation related to hiding control zone highlighting (SPR #69621, 69606, 68375, PCV-2801)

At the time of writing, hiding the control zone highlighting (according to the HMI option) is only implemented for rectangle shapes.

Web Server Extensions > WebVue

16.3.0

Also in: 17.0.0, 15.2.0, 15.1.0, 15.0.0, 12.0.7

Known limitation related to the animation Send register in Step mode (SPR #66012, PCV-2801)

The '+' and '-' buttons are not rendered in WebVue when using the *Send register* animation with the *Step mode* enabled.

Web Server Extensions > WebVue

16.3.0

Also in: 17.0.0, 15.2.0, 15.1.0, 15.0.0, 12.0.7

SCADA Basic scripting of form controls (SPR #65938, PCV-2801)

When scripting form controls in SCADA Basic in a WebVue context, the GET modes such as GETSELECTEDINDEX, GETTEXT... do not return the correct value if the currently selected item was selected either via the keyboard or another script (with a mode such as SETSELECTEDINDEX).
 These GET modes work properly if the selection was done via mouse-click or a tap (on a touch device).

Web Server Extensions > WebVue

16.3.0

Also in: 17.0.0, 15.2.0, 15.1.0, 15.0.0, 12.0.7



PCVUE 16 RELEASE NOTES

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