

PCVUE 17 RELEASE NOTES

» SUMMARY:

This document contains information about changes in PcVue 17. It includes information up to Maintenance Release 17.0.1.

Last update	30/07/2026
Revision	1.0
Confidentiality	TLP:CLEAR

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1. Maintenance Release 17.0.1 (17.0.01900)

1. Critical fixes

Security settings wrongly hardened (PCV-2045, 2069, 2972, 2973) Upon migration from an earlier version, some security settings were hardened as for a project newly created with version 17. The migration process was not in line with the backward compatibility principles that are in place, and the project would not behave as it used to be with an earlier version. It was a known issue since 17.0.0 (Initial Release).	Deployment tools > ProjectUtility CLI
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2. Other fixes & enhancements

PCV-2755

2. Initial Release 17.0.0 (17.0.00902)

1. New features

Partial generation Generate or synchronize only what has changed: - Regenerates the instance you select and its related parents/children. - Greatly reduces generation time for partial updates or ad'hoc testing.	Configuration Environments > Application Architect
Export to third-party databases In addition to Excel and Csv files, it is now possible to export data to SQL Server et Oracle databases.	Data Export
Host Deployment Console The new Host Deployment Console helps you manage project migration, project protection, station configuration, and related security keys. It is installed locally as part of the PcVue installation and offers features covering the capabilities of both the svcmd and ProjectUtility CLI tools in an interactive application.	Deployment tools > Host Deployment Console
New ProjectUtility CLI The new ProjectUtility CLI helps you migrate a project from the command line in your preferred terminal. It is installed locally as part of the PcVue installation.	Deployment tools > ProjectUtility CLI
New svcmd CLI tool The new svcmd CLI helps you manage project protection, host configuration, station configuration, and related security keys from the command line in your preferred terminal. It is installed locally as part of the PcVue installation.	Deployment tools > svcmd CLI
Control over security alterations Full control over security alterations via dedicated settings. - For new projects, these settings are hardened by default. - For migrated projects, these settings are set to preserve past potentially insecure behaviors. Changing the value of the security-sensitive settings requires a specific permission that must be set on user profiles.	General
Project security model A new security model is available for projects, with the concept of protected and unprotected project. While sensitive data at rest are ciphered in both cases, a project is considered unprotected if data are ciphered using a default secure key (default). A project is protected once the default secure key is replaced by a custom one.	General
User account management Hardened user account management is set by default when creating a new project.	General > User management
Alarm & Log viewers - Increased max column number (SPR #75235, 75225, 73548) The Alarm and Log viewers now support up to 20 columns (was 8).	HMI
Scheduling animation A new built-in animation designed for runtime operators in WebVue: - Modern interface and user experience. - Configurable colors for time intervals. - Automatically adapts the displayed schedule based on the calling mimic thanks to branches. - Supports CRON timetables, BACnet Schedule and BACnet Calendar objects.	HMI > Animations
Simulock animation New animation offering mimic-level variable inspection with strict permission management.	HMI > Animations

Form controls and Sql queries (SPR #75628) Form controls can now use Sql query results as list of items. Added new modes to the SCADA Basic instruction CHECKLIST, COMBOBOX, LISTBOX and OPTIONLIST to handle such Sql query by script: • Mode EXECQUERY: Triggers a refresh the form control by executing the query configured on it. • Mode GETQUERYSYNTAX: Returns the currently configured Sql query. • Mode SETCYCLICEXECPERIOD: Sets the Sql query for periodic execution.	HMI > Form controls
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: 16.3.5
PKI support Enhanced integration with AD-CS, Windows certificate stores, and third-party PKI for certificate management. A built-in PKI is also included.	Installation
New Machine Learning operations In addition to Linear regression and Value prediction, 3 new ML algorithms are now available: • Binary classification. • Multi-class classification. • Anomaly detection.	Instant Messaging > Smart Bot
Smart Bot - Jobs Jobs are new parameterized workflows designed to automate recurrent tasks. They are a new type of action you define with the Application Explorer or the Application Architect (along with events, cyclics...). Behind the scene, a job is an instance of a system bot that runs in the background and performs its duty if conditions are met.	Instant Messaging > Smart Bot
Support for the FlexReady API The FlexReady API is now available as part of the Smart Bots workflows.	Instant Messaging > Smart Bot
TLS support for client/server Networking Stronger protection for data in transit across client/server.	Networking
Grid control support Added support for the Grid control in WebVue, including: • The base Grid control. • The Variable tracking mode. In addition, the SCADA Basic instruction SELECTOR can now be used in a Web context.	Web Server Extensions > WebVue

2. 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: 16.3.3
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: 16.3.2
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: 16.3.3
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: 16.3.3

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: 16.3.5
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: 16.3.4
Incorrect decoding of non-ANSI characters (SPR #74608) Fixed management of non-ANSI formatted text.	Communication interfaces > MQTT Pub-Sub
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: 16.3.2
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: 16.3.5
System variable not updated (SPR #76127) The system variables are now updated immediately upon connection of a charge point.	Communication interfaces > OCPP Also in: 16.3.3
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: 16.3.3
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: 16.3.3
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
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: 16.3.3
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: 16.3.2

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: 16.3.1
Incorrect data typing with BACnet variables (PCV-2211) When modeling BACnet variables based on an EDE file in the Application Architect, the generated variables were incorrectly typed for online mapping. They are now correctly typed for offline browsing based on an EDE file.	Configuration Environments > Application Architect
Initial value for HMI variables (SPR #75720) Added <i>Initial value</i> property for HMI variables.	Configuration Environments > Application Architect Also in: 16.3.2
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: 16.3.2
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: 16.3.5
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: 16.3.2
SG OPC - Fatal error (SPR #75786) A fatal error occurred during OPC import.	Configuration Environments > Smart Generators
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: 16.3.4
Memory leak with Trend log (PCV-2306) A memory leak occurred when retrieving Trend log data.	Data Acquisition > BACnet Client
Network Id when no interface configured (PCV-2240) Network Id was 0 when using the default network interface, causing connection failure or address conflict reports in situations where it should have worked properly.	Data Acquisition > BACnet Client
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: 16.3.5
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: 16.3.1
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: 16.3.3
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: 16.3.1

Several fixes & enhancements (SPR #72187, 71565, 69188) The list of fixes & enhancements includes: • A fatal error of the Application Explorer occurred when enabling a timestamp with a custom time zone and the value was set to an empty string. • Fixed file deletion not working and improved Application Explorer file transfer browsing. • Several fixes in the configuration UI.	Data Acquisition > DNP3 Client
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: 16.3.2
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: 16.3.2, 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: 16.3.2
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: 16.3.2
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: 16.3.3
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: 16.3.2
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 CwReadConfiguration error).	Data Acquisition > Other built-in drivers Also in: 16.3.2
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: 16.3.5
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
Incorrect values with 4-bit and 8-bit signed format (SPR #76043) When mapping a variable with a 4-bit or an 8-bit signed format to a Word frame, the received values were always interpreted as unsigned.	Data Acquisition > Other built-in drivers
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: 16.3.2
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: 16.3.5

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: 16.3.3
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
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: 16.3.2
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: 16.3.5
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: 16.3.1, 15.2.12
Log export issues with comma in Description (PCV-1149) Logged events were not correctly exported when the value of a requested <i>Description</i> contained a comma.	Data Export
Missing headers (SPR #75690) The variable description was only exported if the variable name was also exported.	Data Export Also in: 16.3.2
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: 16.3.1, 15.2.12
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: 16.3.2
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: 16.3.2
Instance import failure (SPR #76027, 75813) Importing instances using the Xml Generic Import could fail.	Development kits > XML Generic Import Toolkit Also in: 16.3.3
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: 16.3.3
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: 16.3.3
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: 16.3.2

Could not configure maintenance tasks (SPR #75305, 75258) When using the MSQL driver (as opposed to the SQL 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: 16.3.1
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: 16.3.3
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: 16.3.3, 15.2.13
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: 16.3.5
Variable linking with text variables (SPR #75522) Variable linking with Text variables was no longer effective.	HMI Also in: 16.3.2
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
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: 16.3.3
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: 16.3.3
Memory leak with Data export wizard (SPR #76480) A memory leak occurred when using the Data export wizard.	HMI > Data Export Wizard Also in: 16.3.5
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: 16.3.2, 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: 16.3.2
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: 16.3.4
Memory leak with mode Sql (PCV-2284) A significant memory leak occurred when using the Grid control in mode Sql.	HMI > Grid control
Animation not saved (PCV-2232, 2279) Under some circumstances, when using the ASCII format, a visibility animation was saved when not set on a Log viewer graphic control.	HMI > Log viewer
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: 16.3.5
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: 16.3.3

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: 16.3.5

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: 16.3.1

Upgrade Cyclic action trigger behavior tuning (SPR #76737, 75526)

Added new properties to fine tune the triggering behavior of a cyclic action.

The new properties control if the first triggering of the action associated to the cyclic must be performed immediately or only after the delay.

And it can be tuned separately for the trigger at startup and the trigger upon activation based on the inhibiting bit.

In addition to fine tuning, this change also fixes a compatibility issue introduced in version 12. Until version 11.2, a cyclic action was first performed after the delay. Since version 12, it is executed without initially without waiting for the delay.

Miscellaneous

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: 16.3.1

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: 16.3.1

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: 16.3.5

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: 16.3.3, 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: 16.3.3
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: 16.3.2
<i>Upgrade</i> Instruction CIMWAY mode SCANMDF - Incorrect return value (SPR #76313) If the period is out of range, the instruction now correctly returns the error value -1 (was returning 1).	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
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: 16.3.2
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: 16.3.3
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: 16.3.2, 15.2.13
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: 16.3.3
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: 16.3.1
<i>Upgrade</i> Incorrect timestamp format (SPR #75208) Timestamps returned by the Web Services Toolkit have always been UTC, but were missing the Z character. They are now correctly formatted with a trailing Z to denote UTC timestamps.	Web Server Extensions > Web Services Toolkit
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: 16.3.3
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: 16.3.3

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: 16.3.5
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: 16.3.2
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: 16.3.3
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: 16.3.5
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: 16.3.3
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: 16.3.1
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: 16.3.3
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: 16.3.2
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: 16.3.2
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
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: 16.3.3
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
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: 16.3.3

Gif image scaling (SPR #75355) Gif images were not scaled properly when resizing the Web browser.	Web Server Extensions > WebVue Also in: 16.3.2
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: 16.3.5
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: 16.3.3
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: 16.3.5
Map control - Symbol and image markers not displayed (SPR #76730) Fixed symbol and image markers not displayed in Map control.	Web Server Extensions > WebVue
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: 16.3.2
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: 16.3.1
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 Hhttps. It was a known issue since 16.3.4.	Web Server Extensions > WebVue
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: 16.3.5
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: 16.3.2
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: 16.3.2
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: 16.3.1
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: 16.3.5
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: 16.3.3

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: 16.3.1
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: 16.3.3
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: 16.3.4
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: 16.3.5

3. 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: 16.3.2, 15.2.13
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: 16.3.3, 15.2.14
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: 16.3.3
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: 16.3.4
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: 16.3.3
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: 16.3.3, 15.2.13
HDS database - SQL authentication option not saved properly (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

Border rendering inverted (PCV-2509) The rendering of the border of a drawing element was inverted between <i>Relief</i> and <i>Inverse relief</i> . The issue was a regression introduced in 16.3.5.	HMI
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: 16.3.3
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
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: 16.3.1
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: 16.3.2, 15.2.13, 12.0.32
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
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: 16.3.3
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: 16.3.5

4. Enhancements

Several fixes & enhancements (SPR #74010) The list of fixes & enhancements includes: - Added parameter to choose to enable removing mismatched variables from datasets. - Changed default behavior to only send error messages with configuration issues. - Changed default behavior to not remove variables from datasets. - Removed duplicate request for available server points when more than one dataset with mismatches were configured.	Communication interfaces > ICCP
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: 16.3.5
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: 16.3.4

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: 16.3.3
Redundancy support (SPR #76365) A new property, <i>AssociationName</i>, 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: 16.3.5
Several fixes & enhancements (SPR #76133, 75980, 75553, 75456, 74919, 74901, 74789, 74788, 74787, 74662, 74620, 74599, 74474) The list of fixes & enhancements includes: • Variable names and properties can now be used directly when writing the query. • Updated filter section and limitation expansion. • Updated variable quality calculation with the 'invalid' parameter. • Updated traces for mapping errors. • Password could not be set from Application Architect. • Customization snippets are now erased only when the syntax is incorrect.	Communication interfaces > Sql connections
New configuration elements support New configuration element support: OPC UA network and server, DNP3 standby device.	Configuration Environments > Application Architect
Several fixes & enhancements (SPR #76651, 75383, 75323) The list of fixes & enhancements includes: • Reordered Sql queries and variables at generation time. • The path of a FileItem can now be set based on a parameter.	Configuration Environments > Application Architect
Color configuration for associated labels It is now possible to associate a color from the color palette to the literals of bit and enumeration associated labels.	Configuration Environments > Application Explorer
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: 16.3.2
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: 16.3.2
SG CAD - Support for recent versions of AutoCAD (SPR #74894) Update of the Smart Generator for CAD to support the import of files created or modified with recent versions of AutoCAD.	Configuration Environments > Smart Generators
SG Saia - Several fixes & enhancements (SPR #74130, 70541, 63673) The list of fixes & enhancements includes: • Support for both IP address and host name. • Added scaling capabilities for Counters, Timers, DWORD & Float registers.	Configuration Environments > Smart Generators

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: 16.3.3
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: 16.3.2
Support for background file transfer (SPR #71565) The configuration of File transfer services for background file retrieval is now available.	Data Acquisition > DNP3 Client
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: 16.3.1
Support for Time activated controls (SPR #63688) The control service <i>TimeActivatedOperate</i> is now supported. A delay property is added to commandable variables to configure the time to wait before sending the operate. The variable must be mapped to a DO that contains the DA operTm.	Data Acquisition > IEC 61850 Client
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: 16.3.2, 15.2.12
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: 16.3.4
Several fixes & enhancements (SPR #75296, 75249, 74816, 74665, 74573, 73558, PCV-2052) The list of fixes & enhancements includes: • Improved traces for asynchronous read requests. • Added a new advanced property to enable logging and saving of data type definitions. • Added authentication password protection for the security policy <i>None</i>.	Data Acquisition > OPC UA Client
Driver Mitsubishi Melsec Ip - Support for iQ-R series Added support for the Mitsubishi iQ-R Series PLC.	Data Acquisition > Other built-in drivers
Driver Mitsubishi Melsec Ip - Support for redundancy Added support for PLC redundancy.	Data Acquisition > Other built-in drivers
Driver Modbus Ip - Byte swapping (SPR #76066) Support for byte swapping with 2 new frame types named Holding register LMs and Input register LMs.	Data Acquisition > Other built-in drivers Also in: 16.3.3
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: 16.3.3
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: 16.3.3

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: 16.3.3
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: 16.3.3
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: 16.3.1
Several fixes & enhancements (SPR #75335, 75292, 75216, 71158, 64510, 62316, 61902, 60138, 59962, 59940) The list of fixes & enhancements includes: - Added progress bar when adding several trends. - Improved handling of forbidden characters (now replaced with '_'). Until this change, invalid names could not be used with the merge option or when appending after the last row of an existing output. - Fixed an issue where the first tab was always selected after applying changes. - Fixed milliseconds adding twice the offset, giving wrong values for row header. - Fixed incorrect data extraction for aggregated statistic counter. - Improved path handling for traces. - Fixed manual generation by period. Values are now initialized to a valid period.	Data Export
Trend page header customization (SPR #75075, 70129, 68327, 63794, 60755) Added trend page header and sub-header customization: - Headers can now be configured via a grid, allowing precise control over each format. - The advanced properties of the trend page now support multiple variables (for name and description) as header and sub-header. - Configuration is stored and displayed as a non-editable JSON string list, using variable formats. In addition, added support for exporting more properties including the Unit, Extended attributes, Domain, Nature...	Data Export
Active Directory integration Enhanced integration with AD-DS using secured LDAPS protocol.	General > User management
Several fixes & enhancements (SPR #75812, 75804, 75180, 73040, 67117, PCV-2794, 2801) The list of fixes & enhancements includes: - Improved control over central and local folder permissions (ACLs). - Secure and reliable access when the service runs under different system accounts or in non-interactive sessions. - Version history for looking-up and exporting information related to existing and deleted versions. - Added command line arguments: -preref_delta, -d proj_delta=x.y.z lib_delta=x.y.z, -d tag_proj_delta=x.y.z tag_lib_delta=x.y.z. - Added soft and hard deletion mechanisms, with version restoration. - Added control to warn if a VMWare drive share is used. A VMWare share cannot be reliably used as central folder due to the lack of support for NTFS file locking.	General > Version management
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

Improved bilingual configuration UI (SPR #75045) The bilingual text selector is now available across more graphic controls, allowing text configuration in two languages simultaneously in design mode: - Alarm and Log viewers. - Trend viewer. - Form controls: List-box, combo-box, check-box list, option-button list, tree-view and text box.	HMI
Increased size of mimic history (SPR #74017) When using #P and #N, the history of mimic navigation now includes the last 50 visited mimics (was 10).	HMI
Reviewed style defaults (SPR #75177) A series of defaults have been changed in the HMI: - New default colors in new projects: Workspace background, mimic background and all drawing elements including rectangle, circle etc. - New background color for the Alarm, Log and Trend viewers. - New runtime toolbar for the Alarm, Log and Trend viewers, and also for the Grid and Chart controls. - Updated icons	HMI
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: 16.3.2, 15.2.13
Multiline comments for symbols (SPR #75176, 74736) Multiline is now supported on symbols.	HMI > Graphics
<i>Upgrade</i> Sql request not triggered (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
Configurable font size (SPR #74213) The font size for the vertical scales can now be customized at design time.	HMI > Trend viewer Also in: 16.3.1
Find event operation Added new field in the Find events operation to return the full list of found events. The list can then be used in a <i>Save to memory</i> operation to extract individual events and their properties. The returned list is limited to 100 items. Disabled events are no longer returned by the operation.	Instant Messaging > Smart Bot
New Display screen operation Added <i>Display screen</i> operation to personalize the SnapVue Messaging UI. Configuration with preview is available in the Bot Configuration tool.	Instant Messaging > Smart Bot
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: 16.3.3

Several fixes & enhancements (SPR #75619)

The list of fixes & enhancements includes:

- The Scheduler UI is now displaying the list of Event occurrences (like Outlook) instead of Event objects.
- Added support for exceptions and excluded dates for recurrent events.
- Event selection (or double click on Event in the calendar) allows a user to switch to the Event view and to configure the event parameters.
- The date selector allows a user to select a dates range. It supports three types of ranges: Month view, Week view and Day view.
- Added a format field to the GetDateTime operation.
- Added new operation Bound.
- Added Read memory operation.
- Added support for wildcards in Memory conditions.
- Added support for GZip/deflate decompression on Http operation to decompress request responses.
- Added Random() function in expressions.
- Added support for expressions in the Send recipe operation.
- Added Time span counting to the Counter operation.
- Added Order by field to the Find in database operation.

Instant Messaging >
Smart Bot

New functions for date information (SPR #70998)

New functions are available as part of the expression engine to retrieve date information:

- TSGetYearDay(): Return the day.
- TSGetWeekDay(): Return the weekday.
- TSIsLeapYear(): Return a boolean indicating if the year is a leap year.

Real time data

New functions for paths information (SPR #75624)

New functions are available as part of the expression engine to retrieve paths information:

- GetProjectRootPath(): Return the path of the current project.
- GetProjectTPPath(): Return the path to the TP folder of the current project.
- GetApplicationPath(): Return the application path.

Real time data

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: 16.3.2

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: 16.3.3

Instruction VARIABLE mode SETBATT - LONGLONG Value (SPR #75103)

The Value argument can now be of type LONGLONG.

Scripting > SCADA
Basic

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: 16.3.2, 15.2.12

Instruction VARIABLE modes GET_BIT_VALUE, GET_REG_VALUE, GET_TXT_VALUE, GET_QUALITY (SPR #76171, 76170)

Added new modes to the instruction VARIABLE to get the variable value and quality.

Scripting > SCADA
Basic

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: 16.3.2
New POST request to query several trends Added support for a new POST request, to retrieve trend data for several variables in a single query.	Web Server Extensions > Web Services Toolkit
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: 16.3.4
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: 16.3.3
Instruction CLIPBOARD mode COPY - WebVue support (SPR #74331) Added support for the instruction CLIPBOARD mode COPY in WebVue.	Web Server Extensions > WebVue
Instruction WINDOW mode SETPREVIOUS - WebVue support (SPR #76056) Added support for the instruction WINDOW mode SETPREVIOUS in WebVue.	Web Server Extensions > WebVue
Support for #B in trend viewer (SPR #75120) Added support for the substitution #B in the Trend viewer.	Web Server Extensions > WebVue Also in: 16.3.2
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: 16.3.3
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: 16.3.3
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: 16.3.4
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: 16.3.1

5. 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: 16.3.4
Reduced tracing (SPR #76657) When using the HDS, if a connection to a database could not be established at startup, an error message was traced for each trend configured on the database. On a large project, such error tracing could heavily slow down the project startup. The number of errors traced in such a case is now reduced.	Historical data

Reduced resource consumption (SPR #74294) When similar expressions are used in multiple animations in opened mimics, an expression is now only instantiated once.	HMI
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: 16.3.3
Several performance improvements The list of improvements includes: - Improve performance for chat creation. - Switch to an event-based bots orchestration model. - Switch to a Pub-Sub architecture for accessing variables remotely.	Instant Messaging > Smart Bot
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: 16.3.2, 15.2.13
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: 16.3.5
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: 16.3.2

6. Audit & diagnostic

New audit counters (PCV-1999) New audit counters are available to monitor the CPU time percent for each manager.	General
Improved logging and tracing The list of improvements includes: - Added running instances indicator. - Reduced logs verbosity. - Improved logging and performance diagnostics. - Improved tracing of operations. - Added throughput indicator for message handling.	Instant Messaging > Smart Bot
New system variables (SPR #76095) Added system variables that indicate whether 3D mimics and VBA features are present: - System.LocalHost.Feature.3D.Present - System.LocalHost.Feature.VBA.Present Both variables are of type Bit, created automatically, value is read only. Value 1 indicates that the feature is present, 0 otherwise.	Real time data

7. Installation

OPC UA Gateway version 1.7.0 Update of the installation package of the OPC UA Gateway available in the Add-ons & Tools section of the DVD.	Add-ons and Tools
Upgrade New default installation folders Default installation folders are now: - C:\Program Files\ARC Informatique\PcVue 17\ - C:\ProgramData\ARC Informatique\PcVue 17\ This change provides an additional layer of security by taking advantage of the OS default ACL on those folders.	General

Upgrade Project & Library migration

General

Existing projects designed with an earlier version require explicit migration using the new **Host Deployment Console** or the **ProjectUtility CLI** tool.
A project that is not migrated with the procedure described in the product help will fail to start with version 17.

After migration, projects can be **protected**, **hardened**, and **deployed** under the new security model.

If you are using VBA scripts, **VBA scripting** must be enabled after installation using the **Host Deployment Console** or **svcmd CLI** (disabled by default).

If you are using **3D mimics** based on Direct3D, run a custom installation and select the corresponding feature (no longer installed by default).

Recommended reading in online help:

- Installation
- Deployment → Hardening guide
- Deployment → Project and library → Project and library migration

Support for Microsoft SQL Server 2025

General

Added support for SQL Server 2025.

Also in: 16.3.5

Support for Microsoft Windows Server 2025

General

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

Also in: 16.3.5

8. Security

Compliance with DEP

General

DEP can now be enforced for the process Sv32.exe and AIExplorer.exe.

SB2026-4 - Vulnerable libraries updated

General

Update of the following third-party libraries:

- c-ares
- curl
- expat
- Google.Protobuf
- libwebsockets
- libxml2
- mbed-TLS
- openssl

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

Secure by default settings and properties (SPR #76015)

General

When creating a new project, settings that control feature behaviors are now set by default to maximize security.

The same goes with property default values when creating a new configuration element.

SB2026-5 - Multiple vulnerabilities

General > User management

The following vulnerabilities are fixed:

- CVE-2026-14867 - Insecure password storage in User directory.
- CVE-2026-14868 - Weak encryption mechanism for User directory.

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

Encryption option did not work (PCV-2109)

Historical data

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.

Also in: 16.3.5

Compliance with SEHOP

Installation

The process Sv32.exe is now SEHOP-compliant.

SB2025-4 - Client/Server networking instability (SPR #76197, 76112)

Networking

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).

Also in: 16.3.3, 15.2.13, 12.0.32

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: 16.3.1, 15.2.12, 12.0.31
SB2026-6 - Security enhancements related to the TCP-based client/server Networking TLS support for client/server Networking. See our Security bulletin for more information.	Networking
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: 16.3.3, 15.2.13, 12.0.32
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: 16.3.4, 15.2.14

9. Other fixes & enhancements

SPR #72039, 74692, 75012, 75061, 75376, 75385, 75394, 75639, 75947, 76059, 76195, 76251, 76453, 76472, 76504, 76537, 76544, 76568, 76650, 76745, 76747, 76783 PCV-2031, 2112, 2217, 2277, 2560, 2721	
SPR #69480, 76460, 76499, 76550, 76557, 76562, 76591, 76651 PCV-1545, 2074, 2107, 2108	Also in: 16.3.5
SPR #76162, 76415, 76481	Also in: 16.3.4
SPR #76290	Also in: 16.3.4, 15.2.14
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: 16.3.3
SPR #76292	Also in: 16.3.3, 15.2.14

SPR #73861	Also in: 16.3.3, 15.2.10
SPR #72680, 74145, 75827, 76247	Also in: 16.3.3, 15.2.13
SPR #76274, 76284	Also in: 16.3.3, 15.2.13, 12.0.32
SPR #73860, 74020, 74239, 74294, 74591, 74943, 75127, 75521, 75546, 75555, 75565, 75571, 75674, 75721, 75834, 75934	Also in: 16.3.2
SPR #73985, 75349, 75762	Also in: 16.3.2, 15.2.13
SPR #75110, 75169, 75212, 75264, 75284, 75306, 75434	Also in: 16.3.1
SPR #75491	Also in: 16.3.1, 15.2.12
SPR #75157, 75163	Also in: 16.3.0, 16.2.5

3. 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 17.0.0 Also in: 16.3.0, 15.2.0, 15.1.0, 15.0.0, 12.0.7
Upgrade DDE disabled by default If you are using DDE communication, it must be enabled after installation using the Host Deployment Console or the svcmd CLI .	Data Acquisition 17.0.0
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 17.0.0 Also in: 16.3.0, 15.2.0, 15.1.0, 15.0.0, 12.0.7, 11.2.05001
Upgrade [fixed] Security settings wrongly hardened (PCV-2069, 2972) Upon migration from an earlier version, some security settings are hardened as for a project newly created with version 17. The migration process is not in line with the backward compatibility principles that are in place, and the project does not behave as it used to be with the earlier version. [Fixed in 17.0.1].	Deployment tools > ProjectUtility CLI 17.0.0
Upgrade 3D mimic feature no longer installed by default If you are using 3D mimics based on Direct3D, run a custom installation and select the corresponding feature (no longer installed by default).	HMI 17.0.0
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 17.0.0 Also in: 16.3.0, 15.2.0, 15.1.0, 15.0.0, 12.0.7
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 17.0.0 Also in: 16.3.0, 15.2.0, 15.1.0, 12.0.20
Upgrade VBA disabled by default If you are using VBA scripts, VBA scripting must be enabled after installation using the Host Deployment Console or the svcmd CLI .	Scripting > VBA 17.0.0
Drag handling with Firefox (SPR #70455, PCV-2801) If a position animation with <i>Cursor mode</i> enabled is used on an image, the user needs to click twice in Firefox to perform the action.	Web Server Extensions > WebVue 17.0.0 Also in: 16.3.0, 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 17.0.0 Also in: 16.3.0, 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**

17.0.0

Also in: 16.3.0, 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**

17.0.0

Also in: 16.3.0, 15.2.0, 15.1.0, 15.0.0, 12.0.7



PCVUE 17 RELEASE NOTES

ARC Informatique
Private limited company
capitalized at 1 250 000 €
RCS Nanterre B 320 695 356
APE 5829C / SIREN 320 695 356
VAT N° FR 19320695 356

Headquarters
40 avenue Pierre Lefauchaux,
92100 Boulogne-Billancourt, France
Tel: +33 1 41 14 36 00
Hotline: +33 1 41 14 36 25
Email: arcnews@arcinfo.com
www.pcvue.com



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Contact us at team-doc@pcvuesolutions.com