

PCVUE 16 RELEASE NOTES

➤ SUMMARY:

This document contains information about changes in PcVue 16. It includes information for Maintenance Release 16.3.2.

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Confidentiality	TLP:CLEAR

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1. 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
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
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
Initial value for HMI variables (SPR # 75720) <i>Initial value</i> property added for HMI variables.	Configuration Environments > Application Architect
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
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
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
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
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
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
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
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
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
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
Missing headers (SPR # 75690) The variable description was only exported if the variable name was also exported.	Data Export

Idle time-out not set (SPR # 73945) The property Idle time-out of the Application pool in IIS was not set. As a consequence, the resources for the Webclient and Oauth applications were released upon IIS switch to idle, causing the next login to take more time than it should.	Deployment tools > Web Deployment Console
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
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
Variable linking with text variables (SPR # 75522) Variable linking with Text variables was no longer effective.	HMI
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 applications, texts for the second language were not saved.	HMI > Form controls Also in: 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
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
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
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: 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
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
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
Gif image scaling (SPR # 75355) Gif images were not scaled properly when resizing the Web browser.	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
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
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

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: 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. The original security fix in 12.0.31, 15.2.12 and 16.3.1 required a cold restart of the system, all stations stopped, updated and then restarted. With this fix, applying the security fix described in SB2025-4 can be done progressively, one station at a time.	Networking Also in: 15.2.13, 15.2.13, 15.2.13

3. Enhancements

Support for change-of-value (SPR # 75785) An alarm can now be mapped on a change-of-value event for event-enrollment.	Configuration Environments
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
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 - 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
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: 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: 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

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: 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
Support for #B in trend viewer (SPR # 75120) Added support for the substitution #B in the Trend viewer.	Web Server Extensions > WebVue

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: 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

5. Security

Vulnerable libraries updated 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 alert page for more information.	General
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6. Other fixes & enhancements

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

2. 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
UCS2 and UCS4 encoding (SPR # 75496) When using UCS2 or UCS4 encoding, only alphanumerical Latin characters were properly interpreted.	Data Acquisition > BACnet Client
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
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: 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: 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
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 FindInDatabase 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 > SmartBot
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
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
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

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
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
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
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

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
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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
File name length for Csv (SPR # 75109) The maximum length for the name of exported Csv files is now 260 (was 31).	Data Export
Configurable font size (SPR # 74213) The font size for the vertical scales can now be customized at design time.	HMI > Trend viewer
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

4. Security

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 alert page 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: 15.2.12, 12.0.31
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5. Other fixes & enhancements

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

3. Known Issues

Dead lock with the Xml Generic Import (SPR # 76087) Since 16.3.0, a dead lock 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 PcVue occurs after the 10-minute watchdog timeout. Recommendation: Product users who cannot wait for the fix should roll-back to 16.2.5. Fix planned in 16.3.3.	Configuration Environnements 16.3.2
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> Fix planned in 16.3.3.	Data Acquisition > BACnet Client 16.3.2
Client/Server networking instability if recent hardening is enabled (SPR # 76112) 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: 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. Fix planned in 16.3.3, 15.2.13 and 12.0.32.	Networking 16.3.2 Also in: 15.2.12, 12.0.31



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