



# PCVUE 16 RELEASE NOTES

## › SUMMARY:

This document contains information about changes in PcVue 16. It includes information up to Maintenance Release 16.3.4.

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Revision	1.0
Confidentiality	<b>TLP:CLEAR</b>

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# 1. Maintenance Release 16.3.4 (16.3.04902)

## 1. Fixes

<p><b>Several fixes &amp; enhancements</b> (SPR #76306, 76305, 76202, 75676, 75674, 75673, 75672, 75658, 75117, 74892)</p> <p>The list of fixes &amp; enhancements includes:</p> <ul style="list-style-type: none"> <li>IOA address change was not taken into account dynamically</li> <li>New interop properties to disable Double Point Command Cause of transmission 6 and 10</li> <li>Fixed fatal error when using the Application Explorer for IEC 104 outstation configuration</li> <li>Improved support for write-only IOA</li> </ul>	<p><b>Communication interfaces &gt; IEC 60870-5-104 Outstation</b></p>
<p><b>Improved stop sequence</b> (SPR #76464)</p> <p>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).</p>	<p><b>Data Acquisition &gt; BACnet Client</b></p>
<p><b>Non-admin user access</b> (SPR #76360)</p> <p>When the advanced security strategy was enabled, a non-admin user (level &gt; 0) could open the user accounts dialog box.</p>	<p><b>General &gt; User management</b></p>
<p><b>Grid control in variable tracking mode with context branch</b> (SPR #76187)</p> <p>When a branch was used in the filter, the mimic context branch was not taken into account, causing the grid to appear empty.</p>	<p><b>HMI &gt; Grid control</b></p>
<p><b>Memory leak</b> (SPR #76544)</p> <p>A memory leak occurred when using the Smart Bot Csv file operations. The issue was a regression introduced in 16.3.3.</p>	<p><b>Instant Messaging &gt; SmartBot</b></p>
<p><b>Trend viewer - Font too small on 4k screens</b> (SPR #76361)</p> <p>Font size was too small when using a 4k screen with system scaling enabled.</p>	<p><b>Web Server Extensions &gt; WebVue</b></p>
<p><b>Exception not properly handled</b> (SPR #76255)</p> <p>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.</p>	<p><b>WebScheduler</b></p>

## 2. Critical fixes

<p><b>Modbus Ip - Holding register frame not read entirely</b> (SPR #76577)</p> <p>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.</p>	<p><b>Data Acquisition &gt; Other built-in drivers</b></p>
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## 3. Enhancements

<p><b>Several fixes &amp; enhancements</b> (SPR #76410, 76388, 68653, 66859)</p> <p>The list of fixes &amp; enhancements includes:</p> <ul style="list-style-type: none"> <li>Fix invalid JSON publishing format if a variable was not initialized (was missing quotes).</li> <li>Support for publishing the value of indirect attributes</li> <li>Support for publishing alarm changes</li> <li>Support for cyclic publish</li> </ul>	<p><b>Communication interfaces &gt; MQTT Pub-Sub</b></p>
<p><b>New properties</b> (SPR #76333)</p> <p>Added property 'Max age' to polling group configuration. Added property 'Sampling interval' to subscription configuration.</p>	<p><b>Data Acquisition &gt; OPC UA Client</b></p>

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**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 device remains unchanged.

**Web Server Extensions****> WebVue**

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**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**

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## 4. Performance

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**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**

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## 5. Security

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**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 alert page](#) for more information.

**Web Server Extensions**

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## 6. Other fixes & enhancements

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SPR #76162, 76290, 76415, 76481

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## 2. Maintenance Release 16.3.3 (16.3.03902)

### 1. Fixes

<p><b>Callback port reset</b> (SPR #74207)</p> <p>Using the Web Deployment Console, the Backend callback port was reset to its default value when applying a change to the application configuration.</p>	<b>Add-ons and Tools</b>
<p><b>Fatal error on alarm variable creation</b> (SPR #76312)</p> <p>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 creation occurs while other components re-subscribe to alarm changes.</p>	<b>Alarms</b>
<p><b>Fatal error if missing network interface</b> (SPR #76117)</p> <p>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.</p>	<b>Communication interfaces &gt; IEC 60870-5-104 Outstation</b>
<p><b>System variable not updated</b> (SPR #76127)</p> <p>The system variables are now updated immediately upon connection of a charge point.</p>	<b>Communication interfaces &gt; OCPP</b>
<p><b>Fatal errors</b> (SPR #75756)</p> <p>Fatal errors could occur when using Sql connections, Sql Read queries and Sql Write queries.</p>	<b>Communication interfaces &gt; Sql connections</b>
<p><b>Sort did not work</b> (SPR #75987)</p> <p>Sorting data in the grid when using the Sql query wizard did not work in the Application Explorer.</p>	<b>Communication interfaces &gt; Sql connections</b>
<p><b>Could not rename element</b> (SPR #74328)</p> <p>Data export elements Log page log and Trend page trend could not be renamed when added to a template.</p>	<b>Configuration Environments &gt; Application Architect</b>
<p><b>Error on reading the ACTIVE_COV_SUBSCRIPTIONS property</b> (SPR #76475)</p> <p>A fatal error occurred when a device returned an error in response to a read request of the ACTIVE_COV_SUBSCRIPTIONS property.</p>	<b>Data Acquisition &gt; BACnet Client</b>
<p><b>Writing dropped</b> (SPR #76386, 76299)</p> <p>Under some circumstances, the property "protocol-services-supported" 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.</p>	<b>Data Acquisition &gt; BACnet Client</b>
<p><b>Unnecessary requests upon switching to passive</b> (SPR #75967, 75838)</p> <p>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.</p>	<b>Data Acquisition &gt; OPC UA Client</b>
<p><b>Modbus Ip slave - Command failure</b> (SPR #76338)</p> <p>It was not possible to send commands on variables mapped on a frame of type Input register or Single coil.</p>	<b>Data Acquisition &gt; Other built-in drivers</b>
<p><b>Instance import failure</b> (SPR #76027, 75813)</p> <p>Importing instances using the Xml Generic Import could fail.</p>	<b>Development kits &gt; XML Generic Import Toolkit</b>
<p><b>Bumped timestamp handling limits</b> (SPR #76062)</p> <p>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.</p>	<b>General</b>

<p><b>Several fixes related to password handling</b> (SPR #76037, 75977, 75954, 75844)</p> <p>The list of fixes includes:</p> <ul style="list-style-type: none"> <li>• SPR #76037 - When password lifespan was enabled, password renewal was requested repeatedly even after it was renewed.</li> <li>• SPR #75844 - Related to profile levels for unlocking accounts.</li> <li>• 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.</li> </ul>	<p><b>General &gt; User management</b></p>
<p><b>Label for enum value Unavailable</b> (SPR #76121)</p> <p>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.</p>	<p><b>HMI</b></p>
<p><b>Substitution strings not handled correctly</b> (SPR #75173, 14462)</p> <p>Substitution strings #B10, #B11 and #B12 were not properly handled when used in a symbol.</p>	<p><b>HMI</b> Also in: 15.2.13</p>
<p><b>Fatal error with unknown variables</b> (SPR #76315)</p> <p>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.</p>	<p><b>HMI &gt; Animations</b></p>
<p><b>Recipe name and title reversed</b> (SPR #76252)</p> <p>When using the Recipe animation, if the recipe was selected by its name, the recipe name and number were reversed in the HMI.</p>	<p><b>HMI &gt; Animations</b></p>
<p><b>Fatal error with multiple Web browser controls</b> (SPR #76349)</p> <p>Under some circumstances, a fatal error could occur when opening and closing a mimic containing several instances of the Web browser control.</p>	<p><b>HMI &gt; Web control</b></p>
<p><b>Several stability fixes</b> (SPR #76266, 76236, 76090, 76088)</p> <p>The list of fixes includes:</p> <ul style="list-style-type: none"> <li>• SPR #76088 - A fatal error could occur on disconnection on an unstable network.</li> <li>• SPR #76090 - Improved control of the outgoing Network Interface Card.</li> <li>• 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.</li> <li>• SPR #76266 - A fatal error could occur on connection/disconnection.</li> <li>• Fix to audit counters: Size of receive buffer (in bytes), Deleting server objects, Deleting client object.</li> </ul>	<p><b>Networking</b> Also in: 15.2.13, 12.0.32</p>
<p><b>Fatal error on change of extended attributes</b> (SPR #76009, 75256)</p> <p>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.</p>	<p><b>Real time data</b></p>
<p><b>Instruction FTPS - Url parsing error</b> (SPR #75990)</p> <p>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.</p>	<p><b>Scripting &gt; SCADA Basic</b></p>
<p><b>Instruction STATION_FILTER mode CLEAR</b> (SPR #76494, 75991, 75985, 75983, 74463)</p> <p>A fatal error occurred when calling the instruction STATION_FILTER mode CLEAR.</p>	<p><b>Scripting &gt; SCADA Basic</b></p>
<p><b>Wrong range verification on command</b> (SPR #74015)</p> <p>When sending a command for a register variable, the value was checked against the max for scaling instead of the max for command.</p>	<p><b>Web Server Extensions &gt; Web Services Toolkit</b></p>
<p><b>Alarm viewer - Actions on multiple alarms no longer effective</b> (SPR #76004, 76003)</p> <p>Fix of a regression, since PcVue 16.2.5, the following actions were no longer effective when executed in a web context:</p> <ul style="list-style-type: none"> <li>• Ack all and Mask all actions in the Alarm viewer</li> <li>• SCADA Basic instruction ALARMDISPLAY mode ACK_DISPLAY and MASK_DISPLAY</li> <li>• SCADA Basic instruction ALARMDISPLAY mode GETVISIBLELINES</li> </ul>	<p><b>Web Server Extensions &gt; WebVue</b></p>
<p><b>Arc and pie drawing elements rendering</b> (SPR #76100)</p> <p>Under some circumstances, the rendering of Arc and pie drawing elements was incorrect.</p>	<p><b>Web Server Extensions &gt; WebVue</b></p>

<p><b>Click handling with mimic title bar</b> (SPR #75361)</p> <p>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).</p>	<p><b>Web Server Extensions</b> &gt; <b>WebVue</b></p>
<p><b>Context variable not resolved</b> (SPR #76082)</p> <p>A context variable was not resolved properly when using the syntax @#V in a Trend viewer with a branch.</p>	<p><b>Web Server Extensions</b> &gt; <b>WebVue</b></p>
<p><b>Fatal error opening and closing sessions</b> (SPR #76367)</p> <p>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.</p>	<p><b>Web Server Extensions</b> &gt; <b>WebVue</b></p>
<p><b>Freeze upon mimic opening</b> (SPR #76200)</p> <p>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.</p>	<p><b>Web Server Extensions</b> &gt; <b>WebVue</b></p>
<p><b>Improved robustness</b> (SPR #76485)</p> <p>Fatal errors of the web backend station could occur as part of the refresh of WebVue graphic elements.</p>	<p><b>Web Server Extensions</b> &gt; <b>WebVue</b></p>
<p><b>Trend viewer - Recent values not visible on trends</b> (SPR #74650)</p> <p>Under some circumstances, when zoomed in, the most current values of trends could be hidden by the toolbar.</p>	<p><b>Web Server Extensions</b> &gt; <b>WebVue</b></p>
<p><b>Wrong trend viewer position</b> (SPR #76055)</p> <p>If in a group or symbol, the position of a Trend viewer could be wrong when rendered on the Web client.</p>	<p><b>Web Server Extensions</b> &gt; <b>WebVue</b></p>

## 2. Critical fixes

<p><b>Deadlock with the Xml Generic Import</b> (SPR #76087, 74398)</p> <p>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.</p>	<p><b>Configuration</b> <b>Environments</b></p>
<p><b>Failure to re-subscribe BACnet COV</b> (SPR #76445, 76089)</p> <p>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:</p> <ul style="list-style-type: none"> <li>• Additional traces for COV/UCOV diagnostic.</li> <li>• 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).</li> </ul>	<p><b>Data Acquisition</b> &gt; <b>BACnet Client</b></p>
<p><b>Project folder with RDS</b> (SPR #75436)</p> <p>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.</p>	<p><b>General</b></p>
<p><b>Deferred attributes no longer archived</b> (SPR #76007, 75523)</p> <p>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.</p>	<p><b>Historical data</b> Also in: 15.2.13</p>
<p><b>Expressions in animation not taking sessions into account</b> (SPR #76363, 74294)</p> <p>Since 16.3.2, expressions in animations were calculated without taking sessions into account.</p>	<p><b>HMI</b> &gt; <b>Animations</b></p>
<p><b>Send text animation no longer worked</b> (SPR #76470)</p> <p>The Send text animation no longer worked in WebVue. The issue was a regression introduced in 16.3.2.</p>	<p><b>Web Server Extensions</b> &gt; <b>WebVue</b></p>

### 3. Enhancements

<p><b>Several fixes &amp; enhancements</b> (SPR #76278, 76256, 75227)</p> <p>The list of fixes &amp; enhancements includes:</p> <ul style="list-style-type: none"> <li>• Connection to AWS MQ using a certificate failed.</li> <li>• Fixed fatal error upon connection when more than one broker was configured and available for connection.</li> <li>• Added support to publish a message on alarm acknowledgement by adding the key PublishMessageOnAlarmStatusChange = true in the TaskParameters section of the .ini file</li> </ul>	<p><b>Communication interfaces &gt; MQTT Pub-Sub</b></p>
<p><b>Several fixes and enhancements</b> (SPR #76237, 76098, 76021, 75993)</p> <p>The list of fixes &amp; enhancements includes:</p> <ul style="list-style-type: none"> <li>• SPR #75993 - Under some circumstances, with a configuration comprising a large number of devices, the protocol-services-supported property could be read too late.</li> <li>• SPR #76021 - Under some circumstances, a fatal error could occur upon stopping a BACnet network.</li> <li>• SPR #76098 - Fix of a fatal error on bitstring conversion when using the ReadProperty service.</li> <li>• SPR #76098 - Fix of a fatal error when a bitstring value was empty.</li> <li>• SPR #76237 - Under some circumstances, the device address was not detected when creating variables and the polling was not started.</li> </ul>	<p><b>Data Acquisition &gt; BACnet Client</b></p>
<p><b>Driver Modbus Ip - Byte swapping</b> (SPR #76066)</p> <p>Support for byte swapping with 2 new frame types named Holding register LMsB and Input register LMsB.</p>	<p><b>Data Acquisition &gt; Other built-in drivers</b></p>
<p><b>Driver Saia Ip and Ether S-BUS - Dependency removed</b> (SPR #74944)</p> <p>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.</p>	<p><b>Data Acquisition &gt; Other built-in drivers</b></p>
<p><b>Driver Saia Ip and Ether S-BUS - Support for host name</b></p> <p>Support for configuration by host name in addition to configuration by Ip address of the controller for Ip-based Saia drivers.</p>	<p><b>Data Acquisition &gt; Other built-in drivers</b></p>
<p><b>Mapping of 64 bits signed/unsigned integer</b> (SPR #76061)</p> <p>Support for mapping 64 bits signed/unsigned integer on frames for all other built-in drivers</p>	<p><b>Data Acquisition &gt; Other built-in drivers</b></p>
<p><b>S7 Ip Industrial Ethernet - New timestamped frame type</b> (SPR #74845)</p> <p>Added new timestamp frame type 'Block IEC Ext' to support db number up to 65535.</p>	<p><b>Data Acquisition &gt; Other built-in drivers</b></p>
<p><b>Profile information available in Assistant Bots</b></p> <p>Added Profile description, Profile name, and Profile role in GetUserInfo and UserInfoChanged operations.</p>	<p><b>Instant Messaging &gt; SmartBot</b></p>
<p><b>Instruction VARIABLE - New mode GET_ASSOC_LABEL</b> (SPR #76328)</p> <p>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])</p>	<p><b>Scripting &gt; SCADA Basic</b></p>
<p><b>Improved title bar font size</b> (SPR #75362)</p> <p>Improved title bar to better align with mimic design for the PcVue desktop app.</p>	<p><b>Web Server Extensions &gt; WebVue</b></p>
<p><b>Support for more substitution strings</b> (SPR #76026, 71997, 70085)</p> <p>Added support for the substitution strings #P, #U and #I.</p>	<p><b>Web Server Extensions &gt; WebVue</b></p>
<p><b>Support for Sql filter on the alarm viewer</b> (SPR #75492)</p> <p>Sql filter on the alarm viewer can now be used with the Web client.</p>	<p><b>Web Server Extensions &gt; WebVue</b></p>

## 4. Performance

### Improved performance and optimization for storage (SPR #76348)

The list of fixes & enhancements includes:

- Csv local file is now handled as a hot storage operating mostly in memory, and persisted on disk.
- Fixed issue in Update database operation.
- Improved performances of expression handling for static values.
- Improved memory management.
- Optimized performance for expressions.
- Max number of items displayed in the list component now limited to 100.

**Instant Messaging >  
SmartBot**

## 5. Security

### Vulnerable libraries updated

Update of the following third-party libraries:

- Google.Protobuf: Updated from version 3.31.0 to 3.33.0. CVE-2022-3171 and CVE-2025-47273.
- expat: Updated from version 2.6.4 to 2.7.3. CVE-2024-8176 and CVE-2025-59375.
- curl: Updated from version 8.15.0 to 8.16.0. CVE-2025-9086, CVE-2025-10148 and CVE-2025-10966.
- libwebsockets: Updated from version 4.3.5 to 4.4.1. CVE-2025-11677.
- openssl: Updated from version 3.5.2 to 3.5.4. CVE-2025-9230, CVE-2025-9231 and CVE-2025-9232.

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

**General**

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

Since the introduction of the security fix described in the security bulletin SB2025-4, networking packets could be falsely detected as malformed, causing a server station to force a disconnection. This issue led to a situation where a client station would not be able to stay connected to a server station in a stable way.

It was a known issue since 16.3.1, 15.2.12 and 12.0.31.

The security bulletin [SB2025-4](#) is updated (Rev B).

**Networking**

Also in: 15.2.13, 12.0.32

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

To make it possible to temporarily maintain compatibility while updating a system to a product release offering hardened packet sequence control, a new setting on the Networking node called 'Allow stations with altered security' and a new property also called 'Allow stations with altered security' on station's node configuration are available.

To facilitate the station by station update, when re-starting an existing project, the new global setting is checked by default. Once all stations of a system are updated, the setting shall be unchecked and all nodes shall have the property set to 'No' to ensure the packet sequence control is hardened for all client/server links.

**Networking**

Also in: 15.2.13, 12.0.32

## 6. Other fixes & enhancements

SPR #74595, 74765, 74791, 75586, 75587, 75688, 75783, 75857, 75871, 75950, 75952, 75955, 76010, 76018, 76060, 76065, 76110, 76116, 76130, 76185, 76204, 76263, 76292, 76351, 76477

SPR #72680, 74145, 75827, 76247

Also in: 15.2.13

SPR #76274, 76284

Also in: 15.2.13, 12.0.32

SPR #73861

Also in: 15.2.10

## 3. Maintenance Release 16.3.2 (16.3.02901)

### 1. Fixes

<p><b>Confusing alarm status</b> (SPR #75097)</p> <p>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.</p>	Alarms
<p><b>Connection handling</b> (SPR #75338)</p> <p>Improved connection handling to better support charge points sending multiple connection requests or not handling BootNotification and Status messages in a timely fashion.</p>	Communication interfaces > OCPP
<p><b>Fatal error with missing library</b> (SPR #75960, 75308)</p> <p>A fatal error of Sv32.exe could occur when selecting a template in the Application Architect in case a library was missing.</p>	Configuration Environments > Application Architect
<p><b>Initial value for HMI variables</b> (SPR #75720)</p> <p><i>Initial value</i> property added for HMI variables.</p>	Configuration Environments > Application Architect
<p><b>Scope for Sql variables</b> (SPR #74329)</p> <p>When using the Application Architect, it was not possible to configure a Sql variable with a scope other than Shared.</p>	Configuration Environments > Application Architect
<p><b>Wrong mapping with BACnet</b> (SPR #74969)</p> <p>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.</p>	Configuration Environments > Application Architect
<p><b>Wrong timestamp conversion</b> (SPR #75130)</p> <p>Timestamp conversion was not always correct when requiring time zone conversions. In addition, timestamp conversion properties are now also available at the device level.</p>	Data Acquisition > DNP3 Client
<p><b>Wrong timestamp quality</b> (SPR #75905)</p> <p>A variable mapped onto an Integrated total ASDU had a timestamp quality 'PLC' even if it was configured for not being time-tagged.</p>	Data Acquisition > IEC 60870-5 Client Also in: 15.2.13
<p><b>Variable not updated</b> (SPR #75758)</p> <p>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.</p>	Data Acquisition > IEC 61850 Client
<p><b>Service call timeouts not taken into account</b> (SPR #75754)</p> <p>Services call timeout properties were not taken into account and in practice fixed at 10 sec.</p>	Data Acquisition > OPC UA Client
<p><b>Comm.dat corruption</b> (SPR #74318)</p> <p>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.</p>	Data Acquisition > Other built-in drivers
<p><b>Communication failure at startup</b> (SPR #75922)</p> <p>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).</p>	Data Acquisition > Other built-in drivers
<p><b>Mapping display issue after migration</b> (SPR #75840)</p> <p>The mapping for some frame types could be wrongly displayed after migration to version 16.</p>	Data Acquisition > Other built-in drivers
<p><b>Could not change template folder</b> (SPR #75889)</p> <p>Changing the template folder from a client station was not possible, the change was overridden when saving.</p>	Data Export

<p><b>Missing headers</b> (SPR #75690) The variable description was only exported if the variable name was also exported.</p>	<b>Data Export</b>
<p><b>Idle time-out not set</b> (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.</p>	<b>Deployment tools &gt; Web Deployment Console</b>
<p><b>Generic import failed</b> (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.</p>	<b>Development kits &gt; XML Generic Import Toolkit</b>
<p><b>Archive unit not loaded</b> (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.</p>	<b>Historical data</b>
<p><b>Variable linking with text variables</b> (SPR #75522) Variable linking with Text variables was no longer effective.</p>	<b>HMI</b>
<p><b>Instructions TREEVIEW, COMBOBOX, CHECKLIST, LISTBOX and OPTIONLIST - Mode SAVE</b> (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.</p>	<b>HMI &gt; Form controls</b> Also in: 15.2.13
<p><b>Items not loaded at runtime</b> (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.</p>	<b>HMI &gt; Form controls</b>
<p><b>Issues with persistent variables</b> (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.</p>	<b>Real time data</b>
<p><b>Instruction FILETOBUF - Incorrect error with empty file</b> (SPR #75298) An incorrect error message 'Memory full' was traced when handling an empty file with instruction FILTEOBUF.</p>	<b>Scripting &gt; SCADA Basic</b>
<p><b>Instruction SEQ_BUFFER mode PREVFIELD - Wrong return value</b> (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).</p>	<b>Scripting &gt; SCADA Basic</b> Also in: 15.2.13
<p><b>Anchor point handling</b> (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.</p>	<b>Web Server Extensions &gt; WebVue</b>
<p><b>Controls not rendered properly</b> (SPR #75122) Some graphic controls, in particular the alarm and log viewers were not rendered properly when zooming using the Web browser zoom feature.</p>	<b>Web Server Extensions &gt; WebVue</b>
<p><b>Datetime format for send register animation</b> (SPR #75638) The following formats are now supported when using the Send register animation: #d, #t, #t1, #t2, #t3, #t4</p>	<b>Web Server Extensions &gt; WebVue</b>
<p><b>Gif image scaling</b> (SPR #75355) Gif images were not scaled properly when resizing the Web browser.</p>	<b>Web Server Extensions &gt; WebVue</b>
<p><b>Map control - Symbol markers not displayed</b> (SPR #75661, 73270) Under some circumstances, depending on zooming and scaling, markers of type Symbol were not displayed on a map control.</p>	<b>Web Server Extensions &gt; WebVue</b>
<p><b>Popup mimic not opening</b> (SPR #73717) Under some circumstances, a popup mimic would not open if another one is already open.</p>	<b>Web Server Extensions &gt; WebVue</b>
<p><b>Script on item selection in form controls</b> (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.</p>	<b>Web Server Extensions &gt; WebVue</b>

## 2. Critical fixes

<p><b>Alarms out of synch</b> (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.</p>	<p><b>Alarms</b> Also in: 15.2.13</p>
<p><b>Multi-node no longer working</b> (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.</p>	<p><b>Networking</b> Also in: 15.2.13, 12.0.32</p>

## 3. Enhancements

<p><b>Support for change-of-value</b> (SPR #75785) An alarm can now be mapped on a change-of-value event for event-enrollment.</p>	<p><b>Configuration Environments</b></p>
<p><b>Commands not accessible to diagnostic users</b> (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'.</p>	<p><b>Configuration Environments &gt; Application Explorer</b></p>
<p><b>Several fixes &amp; enhancements for the heterogeneous mapping</b> (SPR #76011, 75772) The list of fixes &amp; enhancements includes:</p> <ul style="list-style-type: none"> <li>• 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</li> <li>• Possibility to create a variable with unusual format such as a register on 2 or 4</li> <li>• Possibility to unmap a variable in the mapping dialog box even if the variable is considered as "other subvariable" due to format</li> <li>• Variable type automatically forced to text if mapped to a text frame format when using the create variable menu item</li> <li>• The <i>Bit offset</i> property is now displayed in all cases in the variable mapping properties, regardless of the mapped format and type</li> </ul>	<p><b>Configuration Environments &gt; Application Explorer</b></p>
<p><b>OPC XML-DA - Array mapping onto a comma-separated value</b> (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.</p>	<p><b>Data Acquisition &gt; OPC Client</b> Also in: 15.2.12</p>
<p><b>Instructions COMBOBOX, CHECKLIST, LISTBOX and OPTIONLIST - New mode INSERT_ITEM</b> (SPR #75443, 75442, 75441, 75440, 75013) A new mode INSERT_ITEM is available to insert items in bilingual applications:</p> <ul style="list-style-type: none"> <li>• COMBOBOX("INSERT_ITEM", Window, Branch, Identity, Text1, Text2, UserData[, Index])</li> <li>• CHECKLIST("INSERT_ITEM", Window, Branch, Identity, Text1, Text2, UserData[, Index])</li> <li>• LISTBOX("INSERT_ITEM", Window, Branch, Identity, Text1, Text2, UserData[, Index])</li> <li>• OPTIONLIST("INSERT_ITEM", Window, Branch, Identity, Text1, Text2, UserData[, Index])</li> </ul> <p>The parameter <i>Text2</i> is the item's text in the second language.</p>	<p><b>HMI &gt; Form controls</b> Also in: 15.2.13</p>
<p><b>Instruction TREND - New modes to retrieve Min and Max values</b> (SPR #75763, 69197) Added 2 new modes to retrieve Min and Max values of a curve:</p> <ul style="list-style-type: none"> <li>• TREND("GETDATA", Window, Branch, Identity, Trace, "MIN_DISPLAYED");</li> <li>• TREND("GETDATA", Window, Branch, Identity, Trace, "MAX_DISPLAYED");</li> </ul>	<p><b>Scripting &gt; SCADA Basic</b></p>

<p><b>Instruction VARIABLE modes ASSOCLABEL and LONGLABEL - Added language parameter</b> (SPR #75016)</p> <p>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:</p> <ul style="list-style-type: none"> <li>• 0 - Returns the label in the current language (default)</li> <li>• 1 - Returns the label in language 1</li> <li>• 2 - Returns the label in language 2</li> </ul>	<p><b>Scripting &gt; SCADA Basic</b></p> <p>Also in: 15.2.12</p>
<p><b>Instruction WINDOW - New modes SETACTIVETEMPLATE and RESETACTIVETEMPLATE</b> (SPR #75482)</p> <p>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).</p>	<p><b>Scripting &gt; SCADA Basic</b></p>
<p><b>Support for #B in trend viewer</b> (SPR #75120)</p> <p>Added support for the substitution #B in the Trend viewer.</p>	<p><b>Web Server Extensions &gt; WebVue</b></p>

## 4. Performance

<p><b>Improved capability to handle large number of variables</b> (SPR #75221)</p> <p>Improvements of read request handling over the client/server Networking for variables.</p>	<p><b>Networking</b></p> <p>Also in: 15.2.13</p>
<p><b>Instruction COMBOBOX mode SORT</b> (SPR #75043)</p> <p>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.</p>	<p><b>Scripting &gt; SCADA Basic</b></p>

## 5. Security

<p><b>Vulnerable libraries updated</b></p> <p>Update of the following third-party libraries:</p> <ul style="list-style-type: none"> <li>• c-ares: CVE-2025-31498</li> <li>• libxml2: CVE-2024-56171, CVE-2025-24928, CVE-2025-27113, CVE-2025-32414 and CVE-2025-32415</li> <li>• 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</li> </ul> <p>See our <a href="#">Security alert page</a> for more information.</p>	<p><b>General</b></p>
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## 6. Other fixes & enhancements

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

## 4. Maintenance Release 16.3.1 (16.3.01900)

### 1. Fixes

<p><b>Generation failure with a trend page</b> (SPR #74327) Configuration generation failed if it included a trend page with an HDS trend.</p>	<p><b>Configuration Environments &gt; Application Architect</b></p>
<p><b>UCS2 and UCS4 encoding</b> (SPR #75496) When using UCS2 or UCS4 encoding, only alphanumerical Latin characters were properly interpreted.</p>	<p><b>Data Acquisition &gt; BACnet Client</b></p>
<p><b>Writing to an INT OR UINT property</b> (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.</p>	<p><b>Data Acquisition &gt; BACnet Client</b></p>
<p><b>Incorrect success message</b> (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.</p>	<p><b>Data Export</b> Also in: 15.2.12</p>
<p><b>Support for non-Latin characters</b> (SPR #73553) Non-Latin characters could not be used as part of a filter on Text extended attributes when configuring a log page.</p>	<p><b>Data Export</b> Also in: 15.2.12</p>
<p><b>Could not configure maintenance tasks</b> (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.</p>	<p><b>Historical data</b></p>
<p><b>Several fixes &amp; enhancements</b> (SPR #75234, 75233, 75119, 74908) The list of fixes &amp; enhancements includes:</p> <ul style="list-style-type: none"> <li>• Support for Push notification processing</li> <li>• Added check for unrecoverable dismiss</li> <li>• Fixed Http request with variables</li> <li>• Added notification click condition</li> <li>• Added ordering in FindInDatabase operation</li> <li>• Fixed validation issues with the Send email operation</li> <li>• Fixed ML pipeline and data conversion issues</li> <li>• Fixed fatal error when sending long UI messages</li> <li>• Fixed fatal error in MsGraph module</li> <li>• Fixed remove variable blocking issues</li> <li>• Fixed issues with file path resolution</li> <li>• Fixed DateTime parsing issues with Excel file operations</li> <li>• Added condition for Contextual User info</li> <li>• Fixed issues with the Counter operation initial value</li> <li>• Updates to Scheduler and MSGraph</li> <li>• Fixed hierarchical profiles issue</li> </ul>	<p><b>Instant Messaging &gt; SmartBot</b></p>
<p><b>Push client configuration format</b> (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.</p>	<p><b>Miscellaneous</b></p>
<p><b>Fatal error upon switchover</b> (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.</p>	<p><b>Networking</b></p>
<p><b>Fatal error when sending an SMS</b> (SPR #75099) Under some circumstances, when an SMS contained non-Latin characters or extended characters, a fatal error occurred.</p>	<p><b>SMS and email</b></p>

<p><b>Context mimic would not open</b> (SPR #75257)</p> <p>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.</p>	<p><b>Web Server Extensions</b> &gt; <b>WebVue</b></p>
<p><b>Map control regressions</b> (SPR #75106, 75105)</p> <p>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.</p>	<p><b>Web Server Extensions</b> &gt; <b>WebVue</b></p>
<p><b>Tooltips duplicated</b> (SPR #75247)</p> <p>Under some circumstances, when using comments as tooltips in nested symbols and groups, tooltips were duplicated on the screen.</p>	<p><b>Web Server Extensions</b> &gt; <b>WebVue</b></p>
<p><b>Wrong click position</b> (SPR #74987)</p> <p>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.</p>	<p><b>Web Server Extensions</b> &gt; <b>WebVue</b></p>

## 2. Critical fixes

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

<p><b>Disable configRev verification</b> (SPR #75171)</p> <p>It is now possible to disable the configRev verification at startup by activating a device property.</p>	<p><b>Data Acquisition &gt; IEC 61850 Client</b></p>
<p><b>File name length for Csv</b> (SPR #75109)</p> <p>The maximum length for the name of exported Csv files is now 260 (was 31).</p>	<p><b>Data Export</b></p>
<p><b>Configurable font size</b> (SPR #74213)</p> <p>The font size for the vertical scales can now be customized at design time.</p>	<p><b>HMI &gt; Trend viewer</b></p>
<p><b>Improved binding</b> (SPR #75161)</p> <p>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).</p>	<p><b>WebScheduler</b></p>

## 4. Security

<p><b>Vulnerabilities in the client/server Networking</b> (SPR #74711, 74710, 74709)</p> <p>The following vulnerabilities are fixed. They affect the TCP-based client/server Networking feature:</p> <ul style="list-style-type: none"> <li>• CVE-2025-9998 - Improper validation of packets sequencing - Affects all versions.</li> <li>• CVE-2025-9999 - Improper validation of payload elements - Affects all versions.</li> </ul> <p>See our <a href="#">Security alert page</a> 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.]</p>	<p><b>Networking</b> Also in: 15.2.12, 12.0.31</p>
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## 5. Other fixes & enhancements

<p>SPR #75110, 75169, 75212, 75264, 75284, 75306, 75434</p>	
<p>SPR #75491</p>	<p>Also in: 15.2.12</p>

## 5. Known Issues

<p><b>[fixed] Deadlock with the Xml Generic Import (SPR #76087)</b></p> <p>Since 16.3.0, a deadlock can occur when importing variables other than 'Internal'. The issue manifests itself with a freeze during Application Architect generation or synchronization, while using a Smart Generator or the Xml Generic Import directly with the XmlImporter.exe command line. A forced exit of Sv32.exe occurs after the 10-minute watchdog timeout.</p> <p>Recommendation: Product users who cannot wait for the fix should roll-back to 16.2.5. Fixed in 16.3.3.</p>	<p><b>Configuration Environments</b> 16.3.0</p>
<p><b>[fixed] Failure to re-subscribe BACnet COV (SPR #76089, 75445)</b></p> <p>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).</p> <p>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:</p> <pre>[BACnetStackCov] Enabled=1</pre> <p>Fixed in 16.3.3.</p>	<p><b>Data Acquisition &gt; BACnet Client</b> 16.3.0</p>
<p><b>[Fixed] Deferred attributes no longer archived (SPR #76007, 75523)</b></p> <p>The value of deferred extended attributes is no longer recorded as part of a log list if using proprietary archive. [Fixed in: 15.2.13, 16.3.3]</p>	<p><b>Historical data</b> 16.3.0 Also in: 16.2.5, 15.2.11</p>
<p><b>[fixed] Client/Server networking instability if recent hardening is enabled (SPR #76197, 76112, 75016)</b></p> <p>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.</p> <p>Recommendation for 16.3.1, 16.3.2, 15.2.12 and 12.0.31: The issue does not manifest itself if the recent hardened connection mechanism is disabled. To disable this mechanism, the security alteration setting named 'Networking.Allow security altering configuration options' must be checked and the property 'Allow stations with altered security' on Nodes must be set to Yes. Fixed in 16.3.3, 15.2.13 and 12.0.32. The security bulletin <a href="#">SB2025-4</a> is updated (Rev B).</p>	<p><b>Networking</b> 16.3.1 Also in: 15.2.12, 12.0.31</p>
<p><b>Map tiles not loaded in the Map control in WebVue (SPR #76731)</b></p> <p>Following the security fixes described in SB2026-2, the map tiles are no longer loaded when using the Map control in WebVue.</p> <p>If you encounter the issue, you can apply the following fix manually:</p> <ol style="list-style-type: none"> <li>1/ Open the folder containing the website (by default., c:\inetpub\SV Website)</li> <li>2/ Edit the file "web.config" with administrative privileges</li> <li>3/ Look-up for the line "&lt;add name="Content-Security-Policy" value="default-src 'self' ..."&gt;</li> <li>4/ At the end of the line, replace <b>img-src 'self' data;</b> by <b>img-src 'self' data:https;</b> (mind the semicolon at the end)</li> <li>5/ Save the change and restart IIS</li> </ol>	<p><b>Web Server Extensions &gt; WebVue</b> 16.3.4</p>



## PCVUE 16 RELEASE NOTES



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