

PcVue

Release Notes



PcVue 12 Release Notes

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Content of the document : This document contains information about changes in PcVue 12 Maintenance Releases. It includes information from version 12.0.8 to version 12.0.18.

See the Readme file for summary information about new features and system requirements.

Note to readers:

SPR or Software Problem Report refers not only to problems, but also to improvements requested by customers and partners. Only new features and major evolutions are not subject to SPR references. Issues found during version qualification and field tests are not mentioned unless they were present in a previous version and are significant. In the same way, software feature improvements made during software source-code maintenance phases by the R&D teams are not subject to SPR.

Items marked as *Upgrade* indicate a modification requiring particular attention when upgrading a project. Please refer to the online help for more detailed information about new features, programming language syntax...

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Version 12.0.18 Release (12.0.18900)

1. Fixes

Textbox control not initialized with variable content (SPR #67452)

HMI.Animations

The Textbox control was not correctly initialized with the value of a variable when used in a mimic with a branch.

Event selection-changed wrongly triggered in Combo-box (SPR #68123)

HMI.Form controls

The event *OnSelectionChanged* was improperly triggered in the Combo-box control when navigating in the dropdown list using the keypad. It is now only triggered upon validation of the new item selection.

Animation not triggered (SPR #67697)

Web Server Extensions.WebVue

When a symbol was part of a group, its animations were not correctly triggered on mouse-click.

Hidden control zone (SPR #68024)

Web Server Extensions.WebVue

Control zone highlight was not properly hidden when the control zone itself was hidden because it belonged to a hidden group or symbol.

Trend viewer toggle button Show/Hide (SPR #67701)

Web Server Extensions.WebVue

The toggle button to show/hide curves (in the legend) was not working properly when trends were dynamically set via SCADA Basic instruction *TREND* mode *SETVAR*.

2. Enhancements

Replication Manager - Purging previous steps before a new replication (SPR #65618)

Add-ons and Tools

Other versions: 11.1.06120,
11.2.06093

When an earlier replication failed to complete, remaining steps were still pending and stored in a dedicated table so that they can be processed later on. This feature had side effects in case one did not want the pending steps to be executed. It is now possible to purge this table of pending steps before executing a new replication, by using the Database Manager tool or by using the */P* command line argument:

- */P=1* to purge the table,
 - */P=0* to keep previous steps (default).
-

Version 12.0.17 Release (12.0.17900)

1. Fixes

Fatal error at startup (SPR #68005)

Data Acquisition.BACnet

Under some circumstances, a fatal error could occur at network startup on projects with a large number of BACnet devices among which some are disconnected.

Impossible to restore communication despite time-out errors (SPR #67881)

Data Acquisition.Other built-in drivers

Under some circumstances, the communication with some TCP/IP devices could not be restored despite multiple time-out errors. The issue was due to the PLC not responding to requests while the underlying socket was in an Ok state.

From now on, after a period of 180 sec in time-out error, it is possible to force a close of the socket, which is then re-opened at the next retry.

To activate this behavior, the following keys must be added in the file C\EqtConf.ini:

```
[TCPIP]
EnableCloseOnConsecutiveTimeOut = 1
MaxConsecutiveTimeOutInSec = 180
```

Web component not correctly deployed on Windows 7 and Windows Server 2008 R2 (SPR #67994)

Deployment tools.Web Deployment Console

The Web components were not correctly deployed by the WDC on operating systems using IIS 7.35 or lower, which include Windows 7 and Windows Server 2008 R2. This was due to the use of the *applicationInitialization* element in the IIS configuration (only supported by from IIS 8.0 onward).

Function Keys configuration lost (SPR #68051)

General

Since version 12.0.16, *Functions Keys* configuration was lost after restarting a project.

Associated actions and context mimic not accessible (SPR #67797)

HMI

Other versions: 11.2.06094

Under some circumstances, associated actions and context mimic were not accessible from a log or alarm viewer. The issue only occurred when the mimic was opened via a SCADA Basic script executed at startup.

Fatal error on symbol edition (SPR #67832)

HMI

Under some circumstances, a fatal error could occur when modifying symbol sub-objects via the Graphic Explorer.

Opening a mimic containing the Grid Control (SPR #67930)

HMI.Grid control

Other versions: 11.2.06096

When using the Grid Control with the Variable Tracking mode activated, the height of each row was unnecessarily stored in the mimic (or symbol) file. It was leading to an unusual long time to open the mimic, and could lead to a fatal error in some cases (due to timeout errors).

VBA event KeyPressed not triggered (SPR #68045)

HMI.Grid control

The VBA event *KeyPressed* of the Grid Control was not triggered when pressing an arrow key if the key was associated to a *Function Key* action.

Trends not displayed upon request to the archives (SPR #66731)

Under some circumstances, trends could disappear and no longer be displayed when requesting historical data. The issue occurred when a real-time value (for one of the displayed variables) was received while processing the historical data.

HMI.Trend viewer
Other versions: 11.2.06096

Instruction KEY mode ADDPROG and ADDPROGS not working with KeyCode greater than 26

The SCADA Basic instruction *KEY*, with modes *ADDPROG* and *ADDPROGS* was not working when the key code was greater than 26.

Scripting.SCADA Basic

Memory leak when changing a threshold on a passive server (SPR #68034)

Under some circumstances, a memory leak could occur when executing the instruction *VARIBALE* mode *THRESHOLD_SETVALUE* on a passive server.

Scripting.SCADA Basic
Other versions: 11.2.06096

Fatal error on Browse request by a web client (SPR #67983)

Under some circumstances, a fatal error could occur when the configuration of a variable was modified while a Browse request was being processed for a web client.

Web Server Extensions

Fatal error when closing a web session

Under some circumstances, a fatal error could occur when closing a web client's session. The issue could be reproduced if an *Alarm Syntheses* was configured with the option *Take the applied Population into account*, and if the value of an extended attribute was changed while closing the web session.

Web Server Extensions

Unable to filter alarms with level 0 only (SPR #67821)

It was not possible to filter real time alarms with level 0 only (*minLevel=0* and *maxLevel=0*). With such requests, the *maxLevel* parameter was automatically set to 29.

This issue only affected web components with alarm filtering capabilities (WebVue, Web Services Toolkit and TouchVue).

Web Server Extensions

2. Enhancements

Support for dual spontaneous transmissions (SPR #68078)

For interop with devices requiring such behavior, it is now possible to send a duplicated spontaneous transmission without time-tag prior to the one with time-tag. It can be configured in the advanced properties of IEC 104 points.

Communication interfaces.IEC 60870-5-104 Outstation

Support of signed float 32 bits format (SPR #68105)

New format *Signed float 32 bits (swapped word)* is now available for built-in drivers.

Data Acquisition.Other built-in drivers

Support for extended function keys

General

The list of fixes & enhancements includes:

- Support of F13 to F16 function keys, Back Space and Tab keys,
- Support of the Alt key as a modifier,
- Error and Log messages reworked.

Instruction TRACE mode FILE - Message max length (SPR #67950)

Scripting.SCADA Basic

The instruction *TRACE* mode *FILE*, can now handle a message of up to 2047 characters (was 80).

3.Security

Vulnerabilities in the Web back end modules

Web Server Extensions

The following vulnerabilities are fixed. They affect the interface between the Web & Mobile back end and the web services hosted in Microsoft IIS:

- A Remote Code Execution vulnerability due to the unsafe deserialization of messages received on the interface,
- A Denial Of Service vulnerability due to the ability for a non-authorized user to modify information used to validate messages sent by legitimate web clients,
- An information exposure vulnerability allowing a non-authorized user to access session data of legitimate users.

See our [Security alert page](#) and Security Bulletin 2020-1 for more information.

4.Other fixes & enhancements

SPR #67223, 67986

Version 12.0.16 Release (12.0.16900)

1. Fixes

SNMP trap not sent (SPR #67679)	Communication interfaces.SNMP Agent
When configuring multiple traps with the same generic format, only the last trap was sent.	
Support for OID and Value in Generic Trap (SPR #67126)	Communication interfaces.SNMP Agent Other versions: 11.2.06092
Generic traps were not supporting OID and Value parameters properly. They now behaves as described in the online help.	
Import failed due to expressions (SPR #67558, 67545, 67276, 66885)	Configuration Environments
When importing expressions via a Smart Generator or the Application Architect, expressions configured with a result variable that was not produced locally were only partly loaded and did not behave as expected at runtime.	
Fatal error when editing a property defined by expression (SPR #67450)	Configuration Environments.Application Architect
Under some circumstances, a fatal error could occur when opening the expression editor for defining a property. The issue occurred when the operating system was set for the Hebrew character set. Other non-English languages were potentially impacted also (reproduced with French char-sets).	
Fatal error upon copy of a variable or trend (SPR #66986)	Configuration Environments.Application Explorer Other versions: 11.2.06094
Under some circumstances, a fatal error could occur when copying a variable or trend.	
Buffered AI and AO values not recorded (SPR #66941, 66834, 66297)	Data Acquisition.DNP3
The buffered values for AI and AO objects of a DNP3 device were not correctly recorded in the archives when they were associated to trends. These values are read when connecting to the device at startup or upon reconnection.	
Driver IpOpenWebNet - Extension modules support (SPR #67702)	Data Acquisition.Other built-in drivers
The SCS extension modules were incorrectly updated when a new measurement was received for a single Lighting Point.	
Fatal error when exporting with limited amount of exported records (SPR #67739)	Data Export
A fatal error could occur when performing an export having the advanced property " <i>Statistics output.Limit exported records</i> " activated, even if the actual number of records was lower than this limit.	

Incorrect value and boundaries for System.Localhost.Session.Type (SPR #67957)**General**

The variable *System.Localhost.Session.Type* had an incorrect low boundary, 0 instead of -1, and was wrongly set to -1 where the value should have been 104 when a the client was connected using the Web Services toolkit.

The same fix applies to the values returned by the SCADA Basic instruction SESSION mode GETTYPE.

Fatal error at project startup (SPR #67652)**Historical data**

Other versions: 11.2.06094

Under some circumstances, a fatal error could occur at project startup due a conflict in accessing pending event logs (event logs waiting to be recorded).

Upgrade Potential memory leak in Networking with mixed PcVue versions (SPR #67867)**Networking**

Other versions: 11.2.06094

Under some circumstances, while migrating a project, a memory leak occurred on a data acquisition server if it ran a version greater than or equal to 11.2.6086 and communicating with a client station running with version 12.0.15 or lower. The leak occurred at each restart of a client station, and its size was proportional to the number of variable subscriptions sent by the client station to the server station (250 bytes per subscription - typically a leak of 2.5 MB for 10 000 variables at each restart of a client station).

Instruction KEY modes ADDPROG ADDCLK & ADDSTD - Existing key not replaced (SPR #67955)**Scripting.SCADA Basic**

When creating a new Function Key action with the SCADA Basic instruction KEY modes ADDPROG ADDCLK or ADDSTD, an existing definition of the key combination was not replaced by the new one, leading to the execution of both actions when triggered.

As described in the help, any existing definition of a temporary key is now replaced, and the instruction returns an error if the existing key is permanent (configured) and cannot be replaced by script at runtime.

Improper disconnection**WebScheduler**

Without a user action causing a request to the web server, the user was forcibly disconnected after the session time-out (defaulted to 1mn). It could happen when configuring multiple schedules before saving them at once. A keep-alive request is now sent every 10s to make sure the connection is maintained.

2. Critical fixes

Several fixes in the IEC 61850 client driver (SPR #67463)**Data Acquisition.IEC 61850**

Other versions: 11.2.06094

Fixes are related to the handling of communication object stop/start and includes:

- Fix of a fatal error that occurred when changing the configuration of several variables linked to IEC 61850 report or dataset. The issue could be reproduced when doing an Application Architect synchronization with IEC 61850 devices connected and communicating actively.
 - Variable updates could be frozen for 1 minute upon redundant data acquisition server switch from active to passive.
 - Failure to reconnect to URCB or BRCB upon redundant data acquisition server switch from active to passive.
-

3. Enhancements

Sampling period greater than the export period (SPR #67469)

Data Export

It is now possible to have a sampling period equal or greater than the export period. This change allows using the export feature to generate a single sampled value snapshot.

Positioning of markers (SPR #67820)

HMI.Map control

It is now possible to select at design time how markers of type Symbol shall be anchored on the map:

- Centered
- Anchor point
- Top-left corner
- Top-right corner
- Bottom-left corner
- Bottom-right corner

New method to log messages (SPR #67826)

Scripting.VBA

A new method *LogInformation* is available in VBA on the *Project* object. It can be used to send log messages to the Event Viewer.

```
ThisProject.LogInformation LogLevel, LogMsg
```

Where *LogLevel* can take value 1, 2 or 3, and *LogMsg* is the message to be logged (string)

- 1 = Information
- 2 = Warning
- 3 = Error

Show/hide columns

WebScheduler

It is now possible to hide the columns *Is Standard Week Empty* and *Is Exception Period Active*.

By doing so, the time to load the list of timetables is greatly reduced.

The setting to add to the WebScheduler web.config file is the following:

```
<setting name="HideSpecialColumns"
serializeAs="String">
  <value>True</value>
</setting>
```

4. Performance

Image caching (SPR #66155)

Web Server Extensions.WebVue

Images loaded in mimics and symbols were not cached by the web browser, thus they were loaded every time the mimic was opened.

The setting to add to the GraphicalData web.config file is the following - Value in seconds, default to 0 (expiration controlled by the web browser):

```
<setting name="CacheMaxAge"
serializeAs="String">
  <value>0</value>
</setting>
```

There is no need for customization to take advantage of the default value.

5. Other fixes & enhancements

SPR #67486

Version 12.0.15 Release (12.0.15900)

1. Fixes

Driver SAIA - Equipments not correctly initialized (SPR #67443)	Data Acquisition.Other built-in drivers
At startup, some devices were not correctly initialized and connection could not be established. Startup of devices is now serialized to enforce a proper initialization.	Other versions: 11.2.06093
Fatal error on frame modification (SPR #66627)	Data Acquisition.Other built-in drivers
A fatal error could occur when modifying a frame while the communication was starting.	
Fatal error with redundant servers (SPR #67440)	Data Acquisition.SNMP Manager
Under some circumstances, a fatal error could occur due to trap handling in redundant servers set-up.	Other versions: 11.2.06093
Populations not correctly applied to HDS log lists (SPR #66699)	Historical data
Under some circumstances, populations were not correctly applied to HDS log lists in Log Viewer, leading to an empty display. The issue occurred when multiple criteria were applied to the same attribute.	
Context mimic with variables attributes (SPR #67261)	HMI
Since version 12.0, it was possible to open a context mimic from a graphic object animated with a variable attribute such as #_Q, #_T or TATTx#. Such mimics only support a context based on a variable value.	
Fatal error when opening mimics in binary format (SPR #66783)	HMI
Under some circumstances, a fatal error could occur when opening a mimic due to some objects being loaded twice.	
Graphical interface frozen (SPR #67045)	HMI
Under some circumstances, the graphical interface could freeze due to the use of AVI or GIF objects in mimics. The loading and display of these objects is now optimized to avoid an overconsumption of CPU resources.	
Residual objects displayed with large preview (SPR #67062)	HMI
Some residual objects were displayed in images and symbols selectors when using large preview.	
Error message displayed when opening a map (SPR #66956)	HMI.Map control
Under some circumstances, an error message could be raised when displaying a map at project startup, due to execution synchronization issues.	Other versions: 11.2.06093
Incorrect position of a symbol in design mode (SPR #67570)	HMI.Map control
In design mode, a symbol at an absolute position was incorrectly anchored in the Map Control.	

Instruction SQL_COMMAND mode READBUFFERCELL - Empty cells were ignored (SPR #67266)**Scripting.SCADA Basic**

String cells having a NULL value were ignored and skipped when using the instruction SQL_COMMAND with the mode READBUFFERCELL. They are now interpreted as empty strings.

Several fixes & enhancements to TouchVue (SPR #67297, 66946, 66697, 66640, 65853, 65370)**TouchVue**

The list of fixes & enhancements includes:

- Under some circumstances, mimics could freeze,
- Under some circumstances, users could not log out and log in,
- Some variable commands were not correctly triggered when embedded in object groups, symbols or mimic tab,
- Incorrect error messages were displayed after unsubscribing a variable.

Instruction TREND mode SETVAR - Variable description not updated (SPR #66637)**Web Server Extensions.WebVue**

In a WebVue context, the variable description was not updated in the legend when the curve was modified with the SCADA Basic instruction TREND mode SETVAR.

2. Critical fixes

Unable to restart serial communication (SPR #67037)**Data Acquisition.Other built-in drivers**

Since version 12, it was no longer possible to restart a serial communication after stopping it. The application had to be restarted to correctly reinitialize the COM port.

3. Performance

GDI object leak (SPR #67251)**HMI.Form controls**

A memory leak occurred when opening mimic containing Form controls (Combo-box, List-box, Option-list, Tree view). One GDI object was lost for each control using a custom font.

Degraded response time (SPR #67120)**Web Server Extensions.Web Services Toolkit**

Since version 12.0 Initial Release, general performances when requesting Web Services were degraded up to 50 folds (100 read requests within 50 seconds instead of 1 seconds). This fix restores performances to a level similar to version 11.2.

4. Security

Access to another web session (SPR #66644)**Web Server Extensions**

Under some particular circumstances, a web client was able to access the session of another web client, leading to potential information disclosure and privilege elevation. This was due to the reuse of a previously closed session Id, but with an access token not yet expired.

Version 12.0.14 Release (12.0.14900)

1. Fixes

Invalid OPC variables after switchover (SPR #66837, 66655)

Data Acquisition.OPC Client

Other versions: 11.2.06092

Under some circumstances, variables mapped to OPC items could remain invalid after a data acquisition server switchover if errors occurred during the switchover.

The issue affected:

- Versions 11.2.06781 to 11.2.06793,
- All releases of 12.0 up to 12.0.14.

File & Folder filter for Project version not correctly saved (SPR #66794)

General.Version management

Under some circumstances, the file selection configured in the central version management was not correctly saved. The issue could occur in particular when selecting the "All files in project directory" checkbox at the project root level.

Incorrect filtered list of alarms in Alarm viewer (SPR #67009)

HMI.Alarm viewer

Other versions: 11.2.06091

Under some circumstances, the alarms displayed in an Alarm viewer did not match to the expected filter. It could occur if a filter was applied using VBA while quickly opening and closing mimics.

Fatal error with a variable name used in a tooltip (SPR #67020)

HMI.Animations

A fatal error occurred when a variable with a name longer than 80 characters was used in a tooltip.

Fatal error when opening a web client (SPR #67012)

Web Server Extensions.WebVue

Under some circumstances, a fatal error of the web back end station could occur when running a WebVue client. This issue was due a synchronization issue with the server.

2. Enhancements

New substitution characters for timestamp formatting - 12-hour clock (SPR #67015)

HMI

New substitution characters are available in the Alarm viewer, the Log viewer and the Trend viewer for timestamp formatting based on 12-hour clock representation:

- #H: Hours from 1 through 12 (as opposed to #h for 00 through 23),
- #p: AM/PM designator.

In addition, only for the Alarm viewer, #H and #p support the suffix *AlaOn*, *AlaAck* and *AlaOff*.

Version 12.0.13 Release (12.0.13900)

1. Fixes

IEC 104 variables not refreshed (SPR #66723)	Data Acquisition.IEC 60870-5-104 Client
Under some circumstances, some IEC 104 variables could not be refreshed at startup or on server switchover.	
ActiveX controls based on .Net loaded twice (SPR #66858)	HMI
ActiveX controls based on .Net components were loaded twice.	
Fatal error with symbol containing a Trend viewer (SPR #66968)	HMI
A fatal error occurred when manipulating a symbol containing a Trend viewer with the option <i>Save runtime properties</i> activated.	
Unable to edit symbol from the Graphic Explorer (SPR #66665)	HMI
Under some circumstances, it was not possible to edit a symbol directly from the Graphic Explorer. The issue occurred when the anchor point of a symbol was invalid.	
Images not correctly displayed (SPR #66947, 65941)	Web Server Extensions.WebVue
Rendering of images used in <i>Images</i> animations (eg: <i>Image on Bit</i>) was not correct. The option <i>Stretch image</i> was not taken into account.	
Incorrect colors in Trend viewer (SPR #66754)	Web Server Extensions.WebVue
Under some circumstances, color of traces were incorrect in a Trend viewer. The issue occurred when a trend historical request was executed while another one was still in progress.	

2. Critical fixes

Contingent purge not executed (SPR #67005)	Historical data
Since version 12.0, the contingent purge was no longer executed properly. In addition, if no scheduled purge was configured, the issue could lead to potential storage issues and changes no longer recorded.	
Empty result when Population applied to an HDS log list (SPR #66699)	Historical data
Since version 12.0 release, when a population was applied to an HDS log list, no result was returned nor displayed.	

3. Enhancements

Default mode of On Text animations (SPR #66983)**HMI.Animations**

On Text animations now use the *Variable mode* by default (was using of *Value mode*).

4. Security

Access to the online help and potential security policy infringement (SPR #66776, 65910)**General**

Other versions: 11.2.06091

Under some circumstances, access to the online help was possible before completion of project startup.

It could occur in particular by pressing the F1 key from one of the message box opened to indicate that network access issues prevent access to the version management central folder. Access to the file system was therefore possible before user authentication, which could be against the security policy on some systems.

Version 12.0.12 Release (12.0.12900)

1. Fixes

Code page displayed in string values (SPR #66842)	Data Acquisition.BACnet
When the code page was different from UTF-8, string values were prefixed with the applied code page (UCS-2, DBCS...).	
Time-out on variable initialization (SPR #66803)	Data Acquisition.DNP3
Under some circumstances, a time-out could occur when initializing DNP3 variables.	
Fatal error when exiting the VCR mode (SPR #66773)	Historical data.VCR
Under some circumstances, a fatal error could occur when exiting PcVue if running in VCR mode and while playing records.	
Fatal error when loading the content file of a tree view (SPR #66779)	HMI.Form controls Other versions: 11.2.06091
A fatal error occurred when updating the content of a Tree view control by loading a content file defined by a variable link. The initial loading worked properly, the issue occurred when loading another file including items with animations.	
Trend Viewer runtime configuration lost (SPR #66736)	HMI.Trend viewer
The runtime configuration of Trend Viewer was not correctly saved with branched mimics.	
Trend Viewer runtime properties lost (SPR #66648)	HMI.Trend viewer Other versions: 11.2.06090
The runtime properties of Trend Viewer was lost when a curve's label contained a comma.	
Instruction CIMWAY mode READFRAME - Fatal error when read request failed (SPR #66607)	Scripting.SCADA Basic
A fatal error could occur when a read request triggered by the instruction CIMWAY mode READFRAME failed.	
Alarm viewer with first column empty (SPR #66855, 59115)	Web Server Extensions.WebVue
A fatal error of the web back end occurred when displaying a mimic in WebVue if it contained an alarm viewer with the first column configured to be empty.	
Blinking colors not working in animation (SPR #66679)	Web Server Extensions.WebVue
Blinking colors were not correctly supported in an animation when changing from blinking to fixed color.	
Blinking colors with indexed colors (SPR #66091)	Web Server Extensions.WebVue
Blinking colors were not properly displayed on text objects when using indexed colors.	

Fatal error with included mimics (SPR #66854)**Web Server Extensions.WebVue**

A fatal error occurred when an included mimic was opened with a Link open animation when the parent mimic was named explicitly (instead of using the * character).

Object flickering with translation animation (SPR #66725)**Web Server Extensions.WebVue**

In WebVue, graphic objects were flickering when configured with a translation animation and rendered partly outside of the visible window.

SCADA Basic script not executed on mimic opening (SPR #66785, 66340)**Web Server Extensions.WebVue**

SCADA Basic script on mimic opening were not executed in WebVue when the mimic was containing an empty Trend Viewer.

Send and Link animations not available on transparent graphic objects (SPR #66577, 66327)**Web Server Extensions.WebVue**

Send and Link animations were not executed when configured on an object with invisible border and background. The control zone was not active nor displayed.

Translation animation with improper control zone (SPR #66230)**Web Server Extensions.WebVue**

Graphic objects configured with a translation animation were always highlighted with a control zone even if the cursor mode was not activated on the animation.

Trends not set with SCADA Basic instruction (SPR #66340)**Web Server Extensions.WebVue**

Opening a mimic and defining trends with the SCADA Basic instruction SETVAR in the same script was not working properly.

2. Critical fixes

Polling stopped after 25 days (SPR #66766)**Data Acquisition.IEC 61850****Other versions: 11.2.06090**

The cyclic polling mechanisms used by the IEC 61850 data acquisition driver stopped working properly after a period of 25 days. It was necessary to restart the application to recover a correct behavior.

The affected mechanisms were the following:

- Polling of Datagroup (all versions affected),
- Polling of DataSet (all versions affected),
- Polling of watchdog (all versions affected),
- Cyclic attempt to reconnect a disconnected device (all versions affected),
- Cyclic re-synch GI for reports (affected since version 11.2),
- Cyclic attempt to reconnect disconnected reports (affected since version 11.2).

3. Enhancements

OPC-XML - Support for arrays (SPR #66898)**Data Acquisition.OPC Client**

When using OPC-XML, it was not possible to map a variable on a specific index of an array of items (string, boolean, I4, UI4...). This feature was already available with the OPC-DA client.

4. Performance

Filtering based on populations (SPR #66703, 66695)

Real time data

Since version 12 Initial Release, runtime performances related to population filters were degraded due to a regression.
Applying a population filter could take several minutes to be fully performed. It is now almost instantaneous.

5. Security

Automatic logout not effective in WebVue (SPR #66653)

Web Server Extensions.WebVue

The automatic logout was not completely effective in WebVue.
After the inactivity timeout elapsed, it was indicated that the session ended but refreshing the page (with F5 or Refresh button) was opening it again without entering credentials.

6. Other fixes & enhancements

SPR #66811, 66857

Version 12.0.11 Release (12.0.11900)

1. New features

Support for included mimics and popups (SPR #66242)

Web Server Extensions.WebVue

Included mimics and popups are now supported in WebVue.

It was a known issue since 12.0.7 (Initial Release).

Support of iPad OS 13

Web Server Extensions.WebVue

WebVue now supports the Safari web browser shipped with iPad OS 13.

2. Fixes

Fatal error when displaying libraries of mimics or symbols thumbnails (SPR #66499, 66480)

Configuration Environments

Other versions: 11.2.06088

A fatal error of the Library Explorer, the Application Explorer or the Application Architect occurred when changing the displayed library of mimics and/or symbols if in thumbnails display mode.

Fatal error when creating a variable (SPR #66630)

Configuration

Environments.Application Explorer

Under some circumstances, a fatal error could occur when creating a variable. The issue occurred when a branch segment of the variable was used in another branch previously deleted (e.g. B1.B2 and B2.B3).

Fatal error upon modification of Equipment configuration (SPR #66627)

Data Acquisition.Other built-in drivers

Under some circumstances, a fatal error could occur when modifying the configuration of an Equipment or a Frame while Communication was starting.

#x substitution with free archive units

Historical data

Other versions: 11.2.06087

The substitution #x (timestamp quality) did not work properly when used to record logged events on free archive units.

Associated labels not correctly displayed with Mismatch label type (SPR #66371)

HMI.Animations

Under some circumstances, the displayed associated label was incorrect. The issue occurred when the compatibility setting "Allow use of mismatched associated label type" was enabled, with a variable of type alarm configured with a *Bit Associated Label*.

Background image position (SPR #66458)

HMI.Chart control

Background image settings were not correctly interpreted in the Chart Control, leading to an incorrect positioning of the image.

Font not properly initialized (SPR #66411)

Under some circumstances, text fonts were not properly initialized when using the ASCII format. Consequently, the text graphic item failed to load and display.

HMI.Graphics

Other versions: 11.2.06087

Send Bit animation - Mode Handled and Pulse reworked (SPR #66459, 66439, 66334)

The *Send Bit* animation has been reworked, in particular the modes *Handled* and *Pulse*:

- With *Handled* mode, the bit value was not reverted when the mimic lost focus,
 - *Pulse* mode was executed only when the HMI option *Mimic.Animations.Send bit.Handled & Pulse execution* was set to *Standard*.
-

Web Server Extensions.WebVue

Time filter wrongly disabled in the Log Viewer (SPR #66606)

The Time filter in the Log Viewer was incorrectly disabled if the access to Filtering options was disabled.

Web Server Extensions.WebVue

3. Critical fixes

Session context not taken into account in RealTimeData service (SPR #66609, 66410)

Session context was not correctly managed in the *RealTimeData* service of the WST. As an example, the *USER* variable was returning the name of the user logged on the back end hosting the services (if any) instead of the name of the user authenticated as part of the WST session.

Web Server Extensions.Web Services Toolkit

4. Enhancements

Allow write commands when equipment is in error (SPR #66436)

Prior to this modification, write commands were not sent when the equipment was seen in error. In particular, they were not executed on valid write only frames when another frame had a status error.

Now, writes commands are sent based on the frame status instead of the device status.

Data Acquisition.Other built-in drivers

Ability to disable file opening after data export (SPR #65359)

From now on, when the user does not have the desktop rights, the Data Export Wizard of the Trend Viewer and the Grid Control no longer asks the user if he/she wants to open the generated file, a simple information is displayed, thus preventing the access to the file system.

Data Export

Small font size in Send Text animation (SPR #66342, 66038)

When a Send Text animation was configured with direct input, the font size for displaying and typing the text were different.

Web Server Extensions.WebVue

Support of SCADA Basic modes INSERT and REMOVE for Check-list ,Combo-box, List-box and Option-list instructions (SPR #66028)

The SCADA Basic modes *INSERT* and *REMOVE* of the instructions *CHECKLIST*, *COMBOBOX*, *LISTBOX* and *OPTIONLIST* are now supported in WebVue.

Web Server Extensions.WebVue

BACnet exception handling (SPR #66582)

Handling of Exception Schedule has been reworked to improve interop with devices that do not clear obsolete exception entries themselves.

WebScheduler

Other versions: 11.0.06101,
11.1.06123, 11.2.06089

5. Other fixes & enhancements

SPR #66192

Version 12.0.10 Release (12.0.10900)

1. Fixes

Missing warning if PcVue is not running (SPR #66092)

No warning was displayed when launching a configuration tool (including the Application Explorer, Application Architect and Smart Generators) while the PcVue main process (Sv32.exe) was not running.

It was a regression affecting version 12.0 Initial and Maintenance Releases.

Configuration Environments

Smart Generator for Wago - Incorrect mapping (SPR #66348, 65717)

The last variable of a frame was incorrectly mapped if the last available index in the frame did not fit the size of the datapoint to map.

The issue occurred in particular when the last datapoint to map was of type REAL.

Configuration Environments.Smart Generators
Other versions: 11.2.06087

Fatal error at startup (SPR #66066, 66017)

A fatal error occurred at startup of the Web Deployment Console if the computer name had been changed at the operating system level.

This was a known issue since 12.0.7 (Initial Release).

Deployment tools.Web Deployment Console

Issue when changing the binding (SPR #65998, 65964)

When changing the binding of a web site, the Registry service end-point was not properly re-configured, preventing the web site from being operational.

The workaround was to delete and recreate the web site or to modify the WDC configuration file manually.

It was a known issue since 12.0.7 (Initial Release).

Deployment tools.Web Deployment Console

Failed to import multiple events (SPR #66361, 66158)

Importing multiple events on variable at once failed if the last part of their name was identical. The issue could be reproduced when generating multiple instances of a template comprising an event with the Application Architect.

Development kits.XML Generic Import Toolkit
Other versions: 11.2.06086

Could not load or generate log reports (SPR #66341, 62750)

It was not possible to load or generate log reports from a station using a server license. This change also fixes an issue related to user rights for log reports (as defined in the Window tab of a user profile).

Historical data
Other versions: 11.2.06086

Instruction WINDOW mode IS_OPEN - Handling of the '*' (SPR #66337)

Using the value '*' for the branch argument when calling the instruction WINDOW mode IS_OPEN no longer worked.

This issue was a regression introduced in version 11.2.06048.

Scripting.SCADA Basic
Other versions: 11.2.06086

Issue with long string literals (SPR #66255)

Using a string literal with a size longer than 80 characters generated a memory overrun that could lead to a PcVue fatal error.

Scripting.SCADA Basic
Other versions: 11.2.06086

Calendar dialog box not modal (SPR #66099)

Web Server Extensions.WebVue

The calendar dialog box of the trend viewer could be improperly hidden behind the mimic. It is now managed correctly as a modal dialog.

Incorrect behavior of the send register animation (SPR #66236)

Web Server Extensions.WebVue

If a user double-clicked on a send register animation (instead of a single click), WebVue improperly opened an empty confirmation dialog box that the user could not close.

Lost control zones (SPR #66209)

Web Server Extensions.WebVue

Control zones were lost on polygons after executing them once.

2. Critical fixes

Fix an issue with Windows updates causing a fatal error at startup

This change fixes an issue introduced by a series of Windows Updates rolled out by Microsoft in August 2019 that caused a fatal error at startup of PcVue and FrontVue.

At the time of writing, the list of suspected Windows Updates is the following:

Windows update	Release date	Applies to
KB4512508 (OS Build 18362.295)	August 13th, 2019	Windows 10 version 1903
KB4511553 (OS Build 17763.678) and Windows Server 2019	August 13th, 2019	Windows 10 version 1809, and Windows Server 2019
KB4512534 (OS Build 17763.720) and Windows Server 2019	August 17th, 2019	Windows 10 version 1809, and Windows Server 2019
KB4512501 (OS Build 17134.950)	August 13th, 2019	Windows 10 version 1803
KB4512509 (OS Build 17134.984)	August 19th, 2019	Windows 10 version 1803
KB4512516 (OS Build 16299.1331)	August 13th, 2019	Windows 10 version 1709
KB4512494 (OS Build 16299.1365)	August 16th, 2019	Windows 10 version 1709
KB4512507 (OS Build 15063.1988)	August 13th, 2019	Windows 10 version 1703
KB4512474 (OS Build 15063.2021)	August 17th, 2019	Windows 10 version 1703
KB4512517 (OS Build 14393.3144) and Windows Server 2016	August 13th, 2019	Windows 10 version 1607, and Windows Server 2016
KB4512495 (OS Build 14393.3181) and Windows Server 2016	August 17th, 2019	Windows 10 version 1607, and Windows Server 2016
KB4512497 (OS Build 10240.18305) (RTM)	August 13th, 2019	Windows 10 version 1507 (RTM)
KB4517276 (OS Build 10240.18308) (RTM)	August 17th, 2019	Windows 10 version 1507 (RTM)
KB4512488 (Monthly Rollup) Windows Server 2012 R2	August 13th, 2019	Windows 8.1, and Windows Server 2012 R2
KB4512478 (Preview of Monthly Rollup) Windows Server 2012 R2	August 17th, 2019	Windows 8.1, and Windows Server 2012 R2
KB4512518 (Monthly Rollup)	August 13th, 2019	Windows Server 2012
KB4512512 (Preview of Monthly Rollup)	August 17th, 2019	Windows Server 2012
KB4512506 (Monthly Rollup) Windows Server 2008 R2 SP1	August 13th, 2019	Windows 7 SP1, and Windows Server 2008 R2 SP1
KB4512514 (Preview of Monthly Rollup) Windows Server 2008 R2 SP1	August 17th, 2019	Windows 7 SP1, and Windows Server 2008 R2 SP1
KB4512476 (Monthly Rollup)	August 13th, 2019	Windows Server 2008 SP2
KB4512499 (Preview of Monthly Rollup)	August 17th, 2019	Windows Server 2008 SP2

The issue affected versions 10.0, 11.0, 11.1, 11.2 and 12.0.

Earlier releases of these PcVue and FrontVue versions cannot be used if any of these Windows Updates is installed.

General

Other versions: 10.OSP2_Update,
11.0.06100, 11.1.06122,
11.2.06087

3. Other fixes & enhancements

SPR #66009, 66150

Version 12.0.9 Release (12.0.09900)

1. Fixes

BACnet helpers frozen	Configuration Environments.Application Explorer
Under some circumstances, BACnet helpers and the Application Explorer could freeze after having selected a BACnet variable which object-type is defined by its numeric Id.	Other versions: 11.2.06078
Memory leak with Trend Logs (SPR #66205)	Data Acquisition.BACnet
A significant memory leak occurred when retrieving Trend Logs.	Other versions: 11.2.06084
Fatal error with image and symbol selectors (SPR #66005)	HMI
It was possible to try to insert an image or a symbol using the corresponding selector even if no mimic was open, causing a fatal error.	
Mimic incorrectly resized and positioned when switching to Design mode (SPR #66196)	HMI
Under some circumstances, when switching a mimic from runtime to design mode, its size and position were incorrectly recalculated due to screen resolution adaptation.	
Instruction LOGDISPLAY mode FILTER with multiple INC clauses (SPR #66217)	Scripting.SCADA Basic
A fatal error occurred when using a filter having multiple INC clauses and using the % wildcard. e.g.: <code>=(#A1 INC %Domain%) && (#A2 INC %Nature%)</code>	
Misleading message displayed (SPR #66068)	Web Server Extensions
When a web back end endpoint was configured but the corresponding feature was not installed a misleading message was displayed at startup: <i>"No configuration found for the backend. Use web deployment console to deploy"</i> instead of indicating that the feature was not installed.	
Incorrect blinking color on alarms (SPR #66111)	Web Server Extensions.WebVue
Under some circumstances, the blinking color of graphical items remained even after a status change of the alarm, typically after its acknowledgment.	
Web client frozen after closing foreground mimic (SPR #66179)	Web Server Extensions.WebVue
Under some circumstances, the web client could freeze after closing a foreground mimic when another foreground or modal mimic was opened.	
Web client frozen with modal mimic in background (SPR #66037)	Web Server Extensions.WebVue
Under some circumstances, after opening a mimic from a modal mimic, the web client could freeze due to the modal mimic being moved to background and no longer being accessible.	
Zoom actions not working in the Trend Viewer (SPR #66048)	Web Server Extensions.WebVue
Under some circumstances, the zoom actions of the Trend Viewer were not working properly.	

2. Critical fixes

Upgrade Upgrade of HDS table schema (SPR #66166)

Historical data

With version 12, the length of Log list names can be up to 100 characters long (was 12). This change affects the schema of HDS log tables (column *LogList*).

The change in table schema is done automatically at startup if the size of the database is less than 10 Gb.

If the size is higher, the traces ask you to run the migration script.

The issue is that the migration script, as supplied with the installation package 12.0.7 and 12.0.8, was wrongly altering the column *EvtTitle* instead of the column *LogList*, causing the archiving to no longer be effective after project startup.

If you have upgraded your HDS log tables with version 12.0.7 or 12.0.8, it is advised to apply the following changes manually:

- Alter the *LogList* column of Log tables to type it `varchar(100)`,
- Alter the *EvtTitle* column of Log tables to type it `varchar(255)`,
- Make sure the value of *DBVersion* is set to 4.

If you are upgrading your HDS log tables with version 12.0.9 or later, no specific action is required apart from running the migration script.

3. Other fixes & enhancements

SPR #66219, 66269

Version 12.0.8 Release (12.0.08901)

1. Fixes

Incorrect OPC values returned (SPR #66161)

Under some circumstances, OPC items could not be read correctly by OPC clients, in particular when requesting a group containing invalid or unknown items.

Communication interfaces.OPC Server

Other versions: 11.2.06083

Reports not processed in case of large datasets (SPR #66118)

Reports were not handled properly when associated to a dataset with more than 150 members. The fix is validated with up to 1000 dataset members associated to a Report Control Block.

Data Acquisition.IEC 61850

VBA form issue with the map control (SPR #65854)

Under some circumstances, when a VBA form was open on top of a map control, it could happen that mouse events were trapped by the map control, thus preventing correct user interaction in the VBA form.

HMI.Map control

Other versions: 11.2.06082

Fatal error when importing variables (SPR #64677)

Under some circumstances, when the auto-number internal identifiers (variable tagname) setting was not activated, a fatal error could occur when importing variables with the SCADA Basic instruction VARIABLE modes IMPORTFILE or IMPORTBUFFER.

Scripting.SCADA Basic

Other versions: 11.2.06081

Known Issues

Lost instances (SPR #67013)

Under some circumstances, all instances are lost. Investigations indicate that this may be caused by the deletion of the root node.

While the investigations continue to uncover and fix the source of the issue, changes have been made to mitigate and prevent the root node deletion.

Specific diagnostic traces have been added to indicate that an attempt to delete the root node occurs. In addition, a specific backup (in addition to the rolling backup files) is now performed to ensure that instances configuration will not be lost.

These changes are in effect starting with the Maintenance Release 12.0.13.

If you run an earlier release of version 12, and notice that the instances root node is not displayed in the Instances tab of the Application Architect, you have probably ran into the issue and the instances are lost. In such situation, stop PcVue and recover a valid instances configuration from the rolling backup files located the `C:\Templates\Back` folder. Do not restart PcVue multiple times before you recover your configuration as it exposes you to losing the useful rolling backup.

**Configuration
Environments.Application
Architect**
12.0.13 Release

Upgrade Potential behavior change for alarm syntheses (SPR #67799, 66701, 60594)

Starting with version 11.2 Release, by default, new alarm synthesis items created with the Application Explorer or the XML Generic Import do not take the population filter into account. This change was not introduced for alarm syntheses created with the Application Architect, leading to the following potential issues if your project includes populations and alarm syntheses created based on templates and instances with the Application Architect:

- If you have migrated or are migrating a project from version 11.1 or earlier to version 11.2 or 12, you should check with the Application Explorer that alarm syntheses are configured to fit your requirements (take into account or ignore population). If configuration does not fit, reverse the value of the 'Take population filter into account' using the Application Architect and proceed with a full synchronization.
- Do the same verification and configuration changes if your project was once migrated to 11.2 (earlier than 11.2.06094), and is now being migrated to 11.2.06094 or later.
- Do the same verification and configuration changes if your project was once migrated to 12 (earlier than 12.0.16), and is now being migrated to 12.0.16 or later.
- In all cases, pay particular attention to alarm syntheses created with version 11.2 and 12, as it is likely that the population filter property is not applied as it used to be with earlier versions.

You are not impacted by this issue if you do not use population filtering in your project, or if alarm syntheses are not created based on application modeling with the Application Architect.

**Configuration
Environments.Application
Architect**
12.0.16 Release
Other versions: 11.2.06094

[Fixed] Potential memory leak in Networking with mixed PcVue versions (SPR #67867)

Under some circumstances, while migrating a project, a memory leak occurs on a data acquisition server if it runs a version greater than or equal to 11.2.6086 and communicates with a client station running with version 12.0.15 or lower. The leak occurs at each restart of a client station, and its size is proportional to the number of variable subscriptions sent by the client station to the server station (250 bytes per subscription - typically a leak of 2.5 MB for 10 000 variables at each restart of a client station).

[Edit: Fixed in 11.2.06094 - The leak is fixed whatever version 12 build is running on the client station]

[Edit: Fixed in 12.0.16 - The leak is fixed whatever version 11.2 build is running on the serve station]

Networking
12.0.16 Release
Other versions: 11.2.06094



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