# PcVue 15 Release Notes

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| Last update : | 06/04/2021 |
| Revision : | 1.1 |
| Content : | This document contains information about changes in PcVue 15 Maintenance Releases. It includes information from version 15.0.1 to version 15.0.2. |

**PcVue** Solutions

# Content

# I. Version 15.0.2 (15.0.02900)

## 1. Fixes

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| **MQTT Subscriber - Fatal error when extracting an analog value** (SPR #68710)<br><br>A fatal occurred when a data extraction returned an analog value. | **Add-ons and Tools** |
| **MQTT Subscriber - Negative values not correctly managed** (SPR #68712)<br><br>Negative values were not correctly managed and interpreted with bad quality NS FMT. | **Add-ons and Tools** |
| **MultiTech LoRa - Fatal error due to missing Ack** (SPR #68797)<br><br>Under some circumstances, a fatal error occurred when the acknowledgement part of the message was missing, i.e. after sending a message with the format *Payload\|Port* where *Payload\|Port\|Ack* was expected. | **Add-ons and Tools** |
| **SCADA Basic editor frozen**<br><br>Under some circumstances, the SCADA Basic editor could freeze, preventing from editing the opened script. The issue occurred after closing the editor while maximized and with line numbers displayed. | **Configuration Environments** |
| **OPC-XML server not correctly created** (SPR #68568, 68486)<br><br>OPC-XML servers were not correctly created if modeled with the Application Architect. The Url property was missing. | **Configuration Environments.Application Architect**<br>Other versions: 12.0.20 |
| **Timestamp type for IEC104 Sectors** (SPR #68569)<br><br>It was not possible to configure the Timestamp type (UTC or Local) for IEC 104 Sectors modeled with the Application Architect. | **Configuration Environments.Application Architect**<br>Other versions: 12.0.21 |
| **Zones incorrectly deleted** (SPR #68703)<br><br>Deleting a zone was incorrectly deleting all the zones of the template if they had the same prefix. | **Configuration Environments.Application Architect** |
| **Fatal error with File Transfer** (SPR #68741)<br><br>Under some circumstances, a fatal error could occur when using the File Transfer. | **Data Acquisition.IEC 61850 Client** |

## Memory leak on modification of text extended attributes (SPR #68634)

A memory leak occurred when writing text extended text attributes of a variable.

**General**
Other versions: 12.0.21

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## Could not disable central project management (SPR #68456)

Since version 15.0, it was no longer possible to disable the central project management from the dialog box.

**General.Version management**

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## Localhost system variables not updated (SPR #68456)

Since version 15.0, the Localhost system variables related to the project and libraries versions were not correctly updated when the central project management was disabled.

**General.Version management**

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## Virtual keypad for user animations (SPR #68669)

The virtual keypad could not be used with some user animations (user name, signature …).

**HMI.Animations**
Other versions: 12.0.21

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## Tree-view control - Mimic not closed (SPR #68539)

In a tree-view control, the animation *Link.open* with the parameter *Caller mimic behavior* set to *Close* was not working correctly, the caller mimic was not closed.

**HMI.Form controls**

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## Instruction OPTION mode REMOVE - Fatal error (SPR #68680)

A fatal error occurred when removing an item from an option list control with the SCADA Basic instruction OPTIONLIST mode REMOVE.

**Scripting.SCADA Basic**

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## Fatal error on web session opening (SPR #68602)

A fatal error of the Web back end could occur when opening a web session if an alarm synthesis was defined and the corresponding variable was missing in the configuration.

**Web Server Extensions**
Other versions: 12.0.21

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## Trends not displayed (SPR #68698, 67972)

Trends were not displayed when the style of invalid points was set to *Invisible*.

**Web Server Extensions.WebVue**
Other versions: 12.0.21

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## Incorrect text encoding (SPR #67999, 61478)

Some cultures relying on non-latin characters were not correctly managed by the WebScheduler, leading to incorrect text display.

**WebScheduler**
Other versions: 12.0.21

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### Setting FirstDayOfWeek not taken into account (SPR #68462)

The setting *FirstDayOfWeek* defined in the *web.config* file was not correctly taken into account.

Starting from version 15, this setting can be set with the Web Deployment Console when deploying the WebScheduler.

**WebScheduler**
Other versions: 12.0.21

# 2. Enhancements

### New BITMASK expression (SPR #68570)

It is now possible to use the custom field BITMASK(x) in the advanced properties of OPC variables. The variable value is then the result of the logical bit AND operation between the OPC item value and the mask.

**Data Acquisition.OPC Client**
Other versions: 12.0.21

### New interop property (SPR #68568, 68486)

A new interop property is available for OPC-XML servers. It enables adding the http basic authentication header to all requests and is designed for OPC-XML servers that do not send the HTTP 401 error if the header is required.

**Data Acquisition.OPC Client**
Other versions: 12.0.20

### Confirmation dialog for saving/loading input files (SPR #68522)

With form controls, a confirmation message is now displayed before reloading or saving items into a file (to avoid unintentional loss of the original file), or when leaving the configuration tab without having saved the modifications.

**HMI.Form controls**

# 3. Security

### Password displayed with virtual keypad (SPR #68668)

When unlocking a user with the virtual keypad, the password was displayed in the input dialog instead of '*' characters.

**HMI**
Other versions: 12.0.21

# 4. Other fixes & enhancements

SPR #68465, 68651

# II.    Version 15.0.1 (15.0.01900)

## 1. Fixes

| | |
|---|---|
| **MQTT Publisher - Incorrect error code** (SPR #68612)<br><br>For an out-of-bounds register value, error code 1 was sent as part of the published message instead of error code 133 or 134. | **Add-ons and Tools** |
| **Masked alarm reappearing after passive server restart** (SPR #68378)<br><br>Under some circumstances, saved alarms were incorrectly reloaded when a passive server was restarting. Specifically, their saved *Masked* status could be corrupted and trigger reappearance or disappearance of such alarms upon a restart. | **Alarms**<br>Other versions: 12.0.20 |
| **Fatal error on variable update** (SPR #67987)<br><br>Under some circumstances, a fatal error could occur upon update of a variable by an OPC client connected to the OPC Server if the configuration of the type was incorrect. | **Communication interfaces.OPC Server**<br>Other versions: 11.2.06098 |
| **Incorrect attribute configuration for log lists**<br><br>The default list of attributes to record for a log list was set to empty instead of *#@A1,#@A2* for proprietary, ODBC and free archive unit types. | **Configuration Environments.Application Architect** |
| **Could not delete HDS database**<br><br>Since version 15.0.0, it was no longer possible to delete the last configured database of a project. | **Configuration Environments.Application Explorer** |
| **SG-OPC - Incorrect server after synchronization** (SPR #68454)<br><br>Under some circumstances, an incorrect server was set after an import synchronization. The issue occurred when multiples servers were configured and the selected server was different from the first one. | **Configuration Environments.Smart Generators**<br>Other versions: 12.0.20 |
| **SG-TwinCAT - Fatal error when importing .tpy file** (SPR #68659)<br><br>A fatal error occurred when importing a .tpy file due an infinite loop while parsing an improper configuration with recursive properties in data type definitions. | **Configuration Environments.Smart Generators** |

### Fatal error on device disconnection (SPR #68291)

Under some circumstances, a fatal error could occur upon device disconnection.

**Data Acquisition.IEC 61850 Client**
Other versions: 11.2.06098

### Fatal error on passive server (SPR #68426)

A fatal error could occur when stopping a passive server due to pending reports not deleted correctly.

**Data Acquisition.IEC 61850 Client**
Other versions: 12.0.20

### Report groups disabled (SPR #68460)

Under some circumstances, a report group was disabled after receiving a report that had the buffer overflow flag set.

**Data Acquisition.IEC 61850 Client**
Other versions: 12.0.20

### Fatal error when writing an SNMP variable (SPR #68479)

Under some circumstances, a fatal error could occur when writing an SNMP variable.

**Data Acquisition.SNMP Manager**
Other versions: 12.0.20

### Memory leak on errors (SPR #68511)

Under some circumstances, a memory leak could occur when facing connectivity issues with devices refreshed by polling. Some polled read requests were not correctly freed after errors.

**Data Acquisition.SNMP Manager**
Other versions: 12.0.20

### Trend export failed with Current period (SPR #68304)

Since version 15.0.0, trend export failed if set to export for the Current period.

**Data Export**

### Unable to deploy a web site with multiple bindings (SPR #68301)

It was not possible to deploy a web site with a mix of binding on IP address and binding on hostname.

**Deployment tools.Web Deployment Console**

### Temporary license not recognized (SPR #68563)

An incorrect date was displayed when starting a project with a temporary license that was not yet active.

**General.Licensing**

### HDS not stopping (SPR #68314)

Under some circumstances, the HDS was not correctly stopped at project exit. The issue occurred after having added a new trend associated to a long update rate, and the project exit being triggered before the end of the first update period of the new trend.

**Historical data**
Other versions: 12.0.20

### Initial value of new variables not loaded (SPR #68578)

When updating a project version on a passive server, newly created variables (in this project version) were not correctly initialized with their initial value after a server switchover.

**Networking**
Other versions: 12.0.20

### Multiple active servers in a single active server association (SPR #68379)

In a single active server historical association, multiple servers could be active simultaneously when started at the same time or after a network failure.

**Networking**
Other versions: 12.0.20

### Instruction FOPEN - Fatal error with unknown access mode (SPR #68097)

A fatal error could occur when using the instruction FOPEN with an unexpected access mode argument.

**Scripting.SCADA Basic**
Other versions: 12.0.20

### Instruction WINDOW mode CLOSEALL - Mimics close failed (SPR #68639)

The SCADA Basic instruction WINDOW mode CLOSEALL was not working properly in a web context. Some mimics could fail to close and remained open.

**Web Server Extensions.WebVue**
Other versions: 12.0.20

## 2. Critical fixes

### Several fixes in the IEC 61850 client driver (SPR #68689, 68649, 68638, 68600, 68521, 68519)

**Data Acquisition.IEC 61850 Client**

The list of fixes includes:

- Fatal error upon loss of connection to a device configured with reports,
- Fatal error upon receiving an error from a device when using the file transfer services (empty source folder).

In addition, when using redundant data acquisition servers:

- Variable values were not correctly refreshed when an RCB was configured without GI,
- Fatal error when stopping a redundant RCB if the dataset no longer existed in the configuration (typically occurred upon stopping a device),
- Fatal error of both passive and active servers when stopping an active server.

## 3. Installation

| **Add-on for Commend ICX** | **Add-ons and Tools** |
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New Add-on to interface with Commend ICX intercom systems.

# 4. Security

| **OpenSSL library updated** | **Security** |
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The OpenSSL library has been updated to version 1.1.1i (8-Dec-2020).

# 5. Other fixes & enhancements

SPR #68534

| SPR #68450 | Other versions: 12.0.20 |
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# III. Known Issues

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| **Audit counter mean values are inaccurate** (SPR #65251) | **Audit**<br>15.0.0<br>Other versions: 12.0.7 |
| Calculation of mean values is wrong for audit counters (error every 27 hours). | |

**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**
15.0.0
Other versions: 12.0.13

## _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 later, 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**
15.0.0
Other versions: 12.0.16, 11.2.06094

## Supported operating systems for the KNX Add-on

The KNX add-on is only supported on the following operating systems, with the exclusion of any virtual environment:

- Windows 7 SP1 (x64),
- Windows Server 2008 R2 SP1 (x64).

**Data Acquisition.KNX**
15.0.0
Other versions: 12.0.7, 11.2.05001

## Supported operating systems for the LNS data acquisition driver

The LNS data acquisition driver is only supported on the following operating systems:

- Windows 7 SP1 (x64),
- Windows 8.1 (x64),
- Windows Server 2008 R2 SP1 (x64),
- Windows Server 2012 (x64).

**Data Acquisition.LNS**
15.0.0
Other versions: 12.0.7, 11.2.05001

## [Fixed] Trend export fails with current period

Since version 15.0.0, trend export fails if set to export for the current period.

[Edit: Fixed in version 15.0.1]

**Data Export**
15.0.0

## [Fixed] Cannot delete HDS database

**General**

15.0.0

Since v15.0.0, following an enhancement to better manage default items in the HDS archiving configuration (default DB, default table...), it is no longer possible to delete the last configured database.

[Edit: Fixed in version 15.0.1]

## SQL filtering on HMI variables (SPR #65903)

**HMI.Grid control**

15.0.0

Other versions: 12.0.7

When using the Grid control in variable tracking mode, the Sql syntax cannot be used to filter HMI variables.

## BeforeClose script not triggered (SPR #68418)

**Scripting.SCADA Basic**

15.0.0

Other versions: 12.0.20

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

## Issue with host name resolution on Android (SPR #65724)

**Web Server Extensions**

15.0.0

Other versions: 12.0.7

Android versions earlier than 5.1 are known to be affected by a bug related to host name resolution.

When using DHCP, the issue prevents from using a host name other than a Fully Qualified Domain Name even if the host name is properly registered in a local DNS and the DNS server automatically updates itself to reflect DHCP leases. The issue is that Android devices do not use the DNS search path provided by DHCP.
Please refer to the Google Issue Tracker for more information:
https://issuetracker.google.com/issues/36916949

## Drag handling with Firefox (SPR #68507)

**Web Server Extensions.WebVue**

15.0.0

Other versions: 12.0.7

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

## Known limitation related to hiding control zone highlighting (SPR #68507)

**Web Server Extensions.WebVue**

15.0.0

Other versions: 12.0.7

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

## Known limitation related to the animation Send register in Step mode

**Web Server Extensions.WebVue**

15.0.0

Other versions: 12.0.7

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

## Restrictions related to web browsers (SPR #68507)

Each web browser can come with its own restrictions, in particular when security is at stake. Below is a list of known behaviors, specific to one or the other web browser available on the market at the time of writing. These restrictions may be cleared and others appear depending on web browser updates and their publisher's strategy.

- Safari on iOS - When the Safari web browser is closed without logging out from WebVue, WebVue is re-open by default the next time the user opens Safari, but the user will not be able to successfully login, and will be stuck on the WebVue loading page. This is due to the Safari snapshot of the last visited page where Safari display the web page without actually requesting the web server. The solution is to go to the address bar and click the Go button, or ask Safari to reload the page.
- Google Chrome - The password manager of Chrome does not store credentials if the connection to the web server is insecure. As a consequence, if you do not have a proper certificate on the web server, users will not be able to use the Chrome password manager to store their credentials.
- Microsoft Edge - Edge in versions prior to 79 (Jan 2020) does not store the session cookie when using the local computer as a web server with a binding on the hostname at the IIS level. As a consequence, you cannot successfully log in, and can see a warning message indicating that the version of the client is not compatible with the server. The solution is to add .local to the computer host name when setting up the web site binding with the Web Deployment Console (for example, https://mycomputername.local instead of https://mycomputername).

**Web Server Extensions.WebVue** 15.0.0
Other versions: 12.0.7

## SCADA Basic scripting of form controls (SPR #65938)

When scripting form controls in SCADA Basic in a WebVue context, the GET modes such as GETSELECTEDINDEX, GETTEXT... do not return the correct value if the currently selected item was selected either via the keyboard or another script (with a mode such as SETSELECTEDINDEX).

These GET modes work properly if the selection was done via mouse-click or a tap (on a touch device).

**Web Server Extensions.WebVue** 15.0.0
Other versions: 12.0.7

## Support for WebFont requires manual installation on Windows 7 SP1 (IIS 7.5) (SPR #65847)

If the Web Server runs IIS 7.5 - a Windows 7 desktop or Windows 2008 R2 server computer - the default font (Times New Roman) is used instead of the Roboto Web Font for texts inside pre-defined WebVue pages and mimic tittles. Texts used in animations within mimics and symbols are not affected.

This issue is due to the lack of pre-configured support for WebFont in IIS 7.5.
The solution is to install the MIME type handler for .woff files manually using the IIS manager.

This issue may be fixed in a later version of the Web Deployment Console.

**Web Server Extensions.WebVue** 15.0.0
Other versions: 12.0.7

## *Upgrade* **WebScheduler migration issue** (SPR #68507)

**WebScheduler**
15.0.0
Other versions: 12.0.7

In order to fit with Microsoft Windows default privileges for the IIS_IUSRS group, the configuration files of the ScheduleData service are now stored in the folder ScheduleData\AppData on the IIS Web server.
These files, namely ScheduleDataAccess.xml and SchedulesAccess.dat, used to be stored in the folder ScheduleData\config.

Upon migrating a project to PcVue 12.0, it is advised to move the files manually to avoid losing customization of any piece of configuration. The manual copy shall take place after installation and deployment of the WebScheduler (using the WDC).

# PcVue Solutions

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## PcVue 15 Release Notes

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ISO 9001
ISO 14001

ISO 9001 and ISO 14001 certified