

SECURITY BULLETIN 2024-8

IEC 61850 CLIENT DRIVER & ICCP ADD-ON VULNERABILITY

SUMMARY:

This document contains information about a vulnerability affecting the IEC 61850 client driver and the ICCP add-on.

Reference	SB2024-8
Publication date	2025.03.21
Last update	2025.03.21
Confidentiality	TLP:CLEAR

Date	Revision	Action
2025.03.17	1.0	Initial version

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1. Overview

ARC Informatique is aware of a security vulnerability affecting PcVue.

The affected components are the IEC 61850 client driver and the ICCP client add-on in PcVue. The vulnerability consists in an incorrect processing of response messages in the Triangle MicroWork's IEC 61850 & ICCP Client library.

This bulletin describes the immediate security measures to prevent the malicious exploitation of this vulnerability. We strongly recommend that users of the affected products apply these measures.

2. Affected products and components

Component	Product & Versions	Description
IEC 61850 client driver	All versions since PcVue 10.0	The vulnerability is related to the incorrect processing of response messages that are formatted to be sent to servers when received
ICCP add-on	All versions since PcVue 15.1	by a client after sending a request. This incorrect processing can cause a fatal error resulting in a denial of service.

This vulnerability only affects the ICCP add-on when configured in client-only mode. It does not affect it when configured as a server or when configured for bi-directional communication.

3. Impact

This incorrect message processing can cause a fatal error resulting in a denial of service.

The exact impact on a particular system depends on many factors. According to the vulnerabilities described hereafter, we recommend that each user of the affected products evaluates the risk for their system.

This vulnerability is not known to be exploited.



4. Vulnerability details

4.1 Incorrect message processing

CVE Id	In progress						
Publication date	YYYY.MM.DD						
Description	The vulnerability is related to the incorrect processing of response messages that are formatted to be sent to servers when received by a client after sending a request. This incorrect processing can cause a fatal error resulting in a denial of service.						
CVSS v3.1 Base Score	8.2						
CVSS v3.1 Vector	CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:H						
Attack Vector	Network Adjace		ent	Local		Physical	
Attack Complexity	Low			High			
Privileges Required	None		Low)W		High	
User interaction	None			Required			
Scope	Unchanged			Changed			
Confidentiality	None		Low		High		
Integrity	None		Low		High		
Availability	None		Low		High		
CWE Id	CWE-476: NULL Pointer Dereference						

5. Immediate risk mitigation

5.1 Harden the configuration

Who should apply this recommendation: All users

The system operators are highly recommended to take defensive measures to minimize the risk of exploitation of this vulnerability. Specifically, users should:

- Minimize network exposure for all control system devices and/or systems, and ensure they are not accessible from the Internet unless required.
- Locate control system networks and remote devices behind firewalls and isolate them from business networks.
- When remote access is required, use secure methods, such as Virtual Private Networks (VPNs), recognizing VPNs may have vulnerabilities and should be updated to the most current version available. Also recognize VPN is only as secure as its connected devices.

5.2 Update PcVue

Who should apply this recommendation: All users using the affected component Apply the patch by installing a fixed PcVue version.



6. Available patches

Component	Vulnerability	Description
IEC 61850 client driver	Incorrect message processing	Fixed in:
ICCP add-on	Incorrect message processing	Planned in: • PcVue 16.2.5 • PcVue 15.2.12

7. Credits

N/A

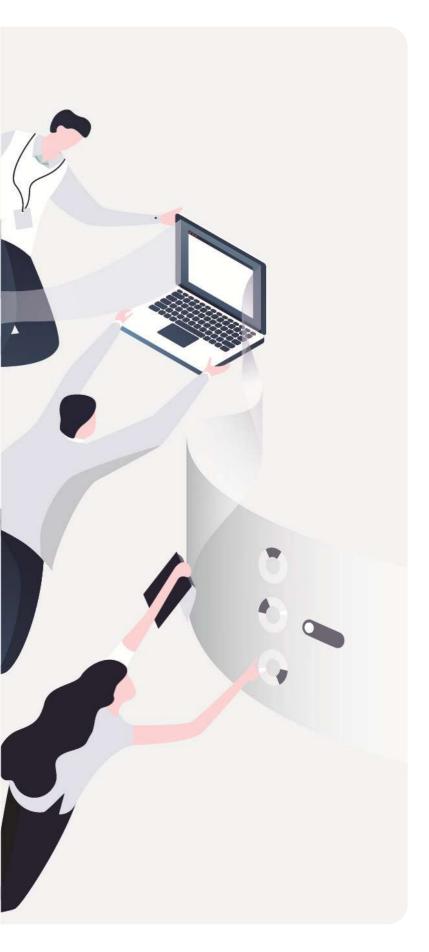
8. References

The public ARC Informatique security alert page: www.pcvue.com/security

ARC Informatique's SPR Id: SPR #74471

CVE: In progress

Want to report a vulnerability or provide feedback – Please email us at secure@arcinfo.com





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