SECURITY BULLETIN 2026-6

SECURITY ENHANCEMENTS RELATED TO THE NETWORKING FEATURE

SUMMARY:

This document contains information about major security enhancements related to the TCP-based client/server Networking feature of PcVue.

Reference	SB2026-6
Publication date	2026.07.07
Last update	2026.07.07
Confidentiality	TLP:CLEAR

Date	Revision	Action
2026.07.07	1.0	Initial version

1. Overview

PcVue version 17 introduces significant security enhancements with the integration of TLS support for the TCP-based client/server networking features. This new capability strengthens the protection of communications between PcVue nodes by ensuring confidentiality, integrity, and authentication of exchanged data over TCP messaging.

TLS can be implemented using either certificate-based authentication or by using pre-shared keys (PSK). These options allow organizations to select the security level that best fits their operational and regulatory requirements. Certificate-based authentication provides the highest level of security, while PSK offers a simpler alternative for controlled environments.

2. Description

With PcVue 17, TLS is now natively supported for TCP-based client/server networking communications. This evolution addresses cybersecurity requirements for industrial and supervisory systems by securing network exchanges against eavesdropping, tampering, and impersonation attacks.

Two TLS configuration modes are available:

- Certificate-based, which relies on X.509 certificates managed through an integrated PKI or the Windows Certificate Store. This mode enforces mutual authentication of communicating nodes and represents the highest security level offered by PcVue.
- Pre-Shared Key (PSK), a lightweight alternative that uses shared secret keys to establish a secure channel without the need for certificates.

The product's documentation provides detailed guidance for implementing this feature, including:

- Node advanced properties
- Certificate requirements
- Managing security certificates
- Managing pre-shared keys

It is important to note that TLS is not automatically enabled for existing projects when upgrading to PcVue 17. Activation and configuration must be performed manually.

New projects, however, use PSK mode by default, allowing secure communications to be established immediately while still offering the option to transition to certificate-based authentication if required.

Additional deployment guidance and recommended practices are available in the product documentation (Hardening Guide).

3. Available patches

Component	Enhancements	Description
Networking	Support for TLS	Patch provided with: • PcVue 17.0.0 (17.0.0902.3276)

4. References

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

ARC Informatique's SPR Ids:

SPR #74714, 74676

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

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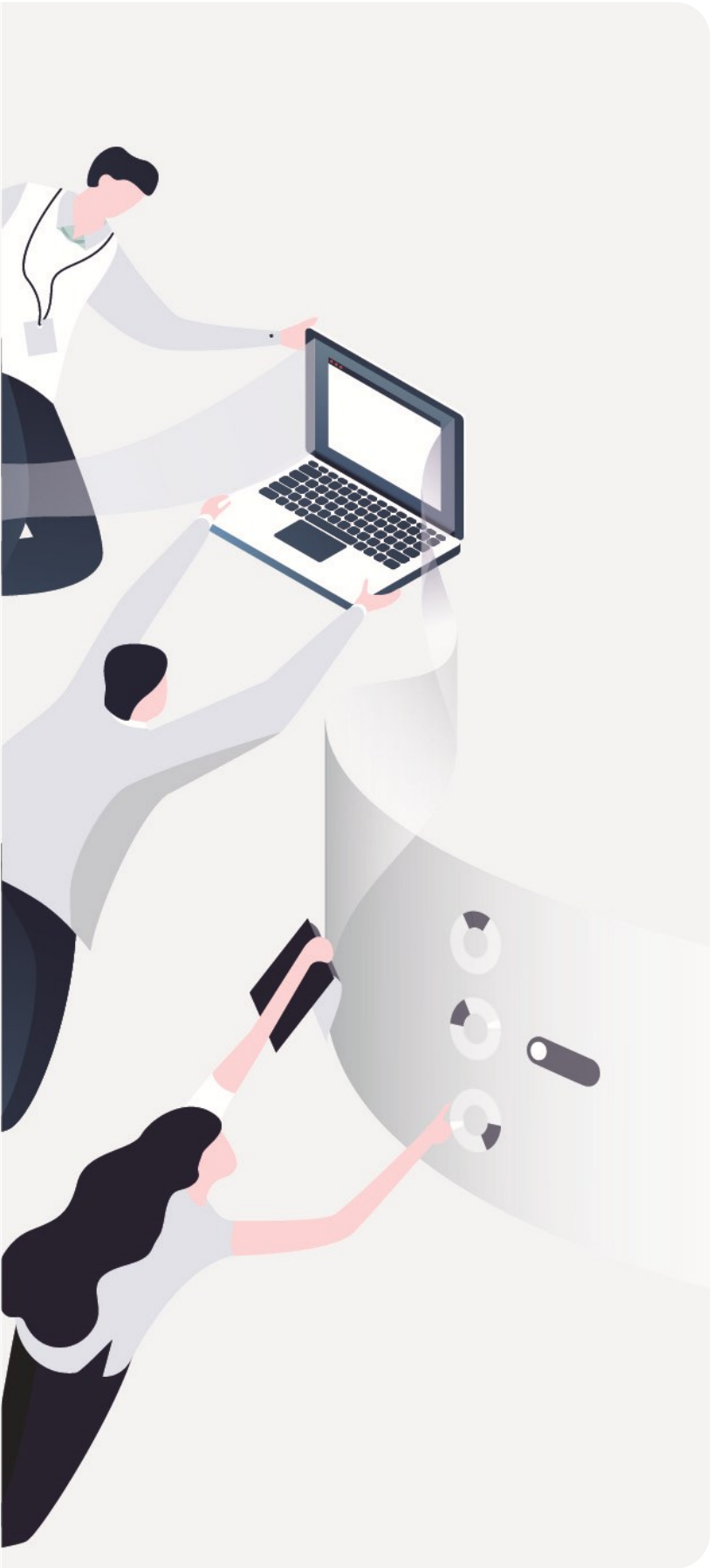

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