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SECURITY BULLETIN AVEVA-2025-001

Title
AVEVA PI Data Archive – Denial of Service vulnerabilities

Rating
High

Published By
AVEVA Product Security Response Center

Overview
AVEVA Group Limited on behalf of itself and its subsidiaries ("AVEVA") is releasing a security update to address vulnerabilities impacting PI Data Archive as delivered by PI Server with the following impacted versions:

Issue #1 (CVE-2025-44019):
    PI Data Archive 2018 SP3 Patch 4 and all prior, 2023, and 2023 Patch 1
    PI Server 2018 SP3 Patch 6 and all prior, 2023, and 2023 Patch 1
Issue #2 (CVE-2025-36539):
    PI Data Archive 2023 and 2023 Patch 1
    PI Server 2023 and 2023 Patch 1

Vulnerability Technical Details

1. Remotely executed denial of service with partial loss of data
The Vulnerability, if exploited, could allow an authenticated miscreant to shut down certain necessary PI Data Archive subsystems, resulting in a Denial of Service. Depending on the timing of the crash, data present in snapshots/write cache may be lost.

CWE-248: Uncaught Exception
CVSSv4.0: **7.1 High** | AV:N/AC:L/AT:N/PR:L/UI:N/VC:N/VI:L/VA:H/SC:N/SI:N/SA:N
CVSSv3.1: **7.1 High** | AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:H
CVE-2025-44019

2. Remotely executed denial of service
The Vulnerability, if exploited, could allow an authenticated miscreant to shut down certain necessary PI Data Archive subsystems, resulting in a Denial of Service.

CWE-248: Uncaught Exception
CVSSv4.0: **7.1 High** | AV:N/AC:L/AT:N/PR:L/UI:N/VC:N/VI:N/VA:H/SC:N/SI:N/SA:N
CVSSv3.1: **6.5 Med** | AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H
CVE-2025-36539

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Recommendations

AVEVA recommends that organizations evaluate the impact of these vulnerabilities based on their operational environment, architecture, and product implementation. Customers using affected product versions should apply security updates to mitigate the risk of exploit.

Security Update Downloads

PI Server 2023 and 2023 SP1 (Hybrid)

- Upgrade to AVEVA PI Server 2024:

  From OSISoft Customer Portal, search for "AVEVA PI Server" and select version "2024".

PI Server 2018 SP3 Patch 6 and all prior (Core)

- Upgrade to AVEVA PI Server 2018 SP3 Patch 7:

  From OSISoft Customer Portal, search for "AVEVA PI Server" and select version "2018 SP3 Patch 7".

Defensive Measures and General Considerations

The following general defensive measures are recommended:

- Monitor liveness of PI Network Manager and PI Archive Subsystem services.
- Set the PI Network Manager and PI Archive Subsystem services to automatically restart.
- Limit port 5450 access to trusted workstations and software.

For a list of PI System firewall port requirements, see knowledge base article KB01162 - Firewall Port Requirements.

For a starting point on PI System security best practices, see knowledge base article KB00833 - Best practices for securing your PI Server.

Acknowledgements

AVEVA would like to thank:

- **CISA** for coordination of advisories and generation of CVEs

The issues in this alert were self-discovered and self-reported in accordance with OSIsoft's Ethical Disclosure Policy to inform administrators of potential risks, so that they can take actions to minimize the effects of the vulnerability.

Support

For information on how to reach AVEVA support for your product, please refer to this link: AVEVA Customer Support.

If you discover errors or omissions in this Security Notification, please report the finding to Support.

AVEVA Security Central

For the latest AVEVA security information and security updates, please visit AVEVA Security Central.

U.S. Department of Commerce Industrial Control Systems Security Guide

For general information regarding how to secure Industrial Control Systems please reference the NIST Guide to Operational Technology (OT) Security, NIST SP800-82r3.

NVD Common Vulnerability Scoring System (CVSS v4.0)

The U.S. Department of Homeland Security has adopted the Common Vulnerability Scoring System (CVSS v4.0) that provides an open framework for communicating the characteristics and impacts of IT vulnerabilities. CVSS v4.0 produces a numerical score as well as a textual representation of that score reflecting the severity of a vulnerability. Scores range from 0.0 (no impact) to a maximum of 10.0 (critical impact with minimal effort to exploit). For additional information please refer to the CVSS v4.0 specifications.

Coordination with Authorities

Organizations observing suspected malicious activity should follow established internal procedures and report findings to applicable authorities for tracking and correlation against other incidents.

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