SECURITY ADVISORY AVEVA-2022-001

Title
AVEVA™ InTouch Access Anywhere and AVEVA™ Plant SCADA Access Anywhere – Escape from streamed app into OS context

Rating
High

Published By
AVEVA Software Security Response Center

Overview
AVEVA Software, LLC. (“AVEVA”) is advising customers that certain Windows Operating System functionality when enabled and used in combination with AVEVA™ InTouch Access Anywhere (all versions) and AVEVA™ Plant SCADA Access Anywhere (all versions, formerly known as AVEVA Citect Anywhere and Schneider Electric Citect Anywhere) could result in a vulnerability. The vulnerability, if exploited, would allow an authenticated user to escape from the context of the streamed application (AVEVA™ InTouch Access Anywhere and AVEVA™ Plant SCADA Access Anywhere) into the OS and launch arbitrary OS commands. This vulnerability does not result in elevation of privilege as the commands are executed under the security context of the authenticated user that is escaping the application.

Background
Windows OS can be configured to overlay a “Language Bar” on top of any application. When this OS functionality is enabled, the OS Language Bar UI will be viewable in the browser alongside the InTouch Access Anywhere and Plant SCADA Access Anywhere applications. It is possible to abuse the Windows OS Language Bar to launch an OS Command Prompt, resulting in a context-escape from application into OS.

Mitigation Steps
AVEVA recommends that organizations evaluate the impact of this vulnerability based on their operational environment, architecture, and product implementation.

Customers using the affected AVEVA products should:

- Disable the Windows Language Bar on the server machine hosting InTouch Access Anywhere and Plant SCADA Access Anywhere applications, unless it is required for corporate policy
- Create unique user accounts with minimal privileges dedicated only to remote access of InTouch Access Anywhere and Plant SCADA Access Anywhere applications.
- Utilize OS Group Policy Objects (GPO) to further restrict what those unique user accounts are allowed to do.
- Restrict access based on Microsoft’s recommended block list: https://docs.microsoft.com/en-us/windows/security/threat-protection/windows-defender-application-control/microsoft-recommended-block-rules
Vulnerability Characterization and CVSSv3 Rating
AVEVA™ InTouch Access Anywhere and AVEVA™ Plant SCADA Access Anywhere application escape to OS:
CWE-668 Exposure of Resource to Wrong Sphere
7.4 | CVSS:3.0/AV:N/AC:L/PR:L/UI:N/S:C/I:L/A:L

Acknowledgements
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- Giovanni Delvecchio from Aceaspa for the discovery and responsible disclosure of this vulnerability
- ICS-Cert for coordination of advisories
Support
For information on how to reach AVEVA support for your product, please refer to this link: AVEVA Software Global Customer Support. If you discover errors or omissions in this Security Notification, please report the finding to Support.

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

Cyber Security Standards and Best Practices
For information regarding how to secure Industrial Control Systems please reference NIST SP800-82r2.

NVD Common Vulnerability Scoring System (CVSS v3)
The U.S. Department of Homeland Security has adopted the Common Vulnerability Scoring System (CVSS v3) that provides an open framework for communicating the characteristics and impacts of IT vulnerabilities. CVSS v3 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 CVSSv3.1 specifications.

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