AVEVA Security Bulletin LFSEC00000135

Title
Wonderware System Platform Vulnerability – Potential for Unauthorized Access to Credentials

Rating
High

Published By
AVEVA Software Security Response Center

Overview
AVEVA Software, LLC. ("AVEVA") has released a new version of System Platform which includes a security update to address vulnerabilities in Wonderware System Platform 2017 Update 2 and all prior versions.

These vulnerabilities could allow unauthorized access to the credentials for the ArchestrA Network User Account.

AVEVA recommends that organizations evaluate the impact of these vulnerabilities based on their operational environment, architecture, and product implementation.

Recommendations
Customers using Wonderware System Platform 2017 Update 2 and all prior versions are affected and should upgrade to System Platform 2017 Update 3 as soon as possible.

For information regarding how to secure Industrial Control Systems please reference NIST SP800-82r2.

Vulnerability Details
System Platform utilizes an ArchestrA Network User Account for authentication of system processes and inter-node communications. An unauthorized user could make use of an API to obtain the credentials for this account.

Security Update
The following Security Updates address the vulnerabilities outlined in this Security Bulletin: System Platform 2017 Update 3.
Affected Products, Components, and Corrective Security Update

The following table identifies the currently supported products affected. Software updates can be downloaded from the Global Customer Support “Software Download” area or from the links below:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Wonderware System</td>
<td>Multiple</td>
<td>Confidentiality, Integrity, Availability</td>
<td>High</td>
<td><a href="https://softwaresupportsp.schneider-electric.com/#/producthub/details?id=52332">https://softwaresupportsp.schneider-electric.com/#/producthub/details?id=52332</a></td>
</tr>
</tbody>
</table>

Vulnerability Characterization and CVSSv3 Rating

**CWE-522**: Insufficiently Protected Credentials, **CWE-250**: Execution with Unnecessary Privileges, **CWE-862**: Missing Authorization

- Wonderware System Platform 2017 Update 2 and all prior versions: 8.8 | CVSS:3.0/AV:L/AC:L/PR:L/UI:N/S:C:H/A:H

Acknowledgements

AVEVA would like to thank:

- [Vladimir Dashchennko from Kaspersky Lab](#) 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 specifications.

Disclaimer

THE INFORMATION PROVIDED HEREIN IS PROVIDED “AS-IS” AND WITHOUT WARRANTY OF ANY KIND. AVEVA AND ITS AFFILIATES, PARENT AND SUBSIDIARIES DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY AVEVA, ITS DEALERS, DISTRIBUTORS, AGENTS OR EMPLOYEES WILL CREATE A WARRANTY AND CUSTOMER MAY NOT RELY ON ANY SUCH INFORMATION OR ADVICE.

AVEVA DOES NOT WARRANT THAT THE SOFTWARE WILL MEET CUSTOMER'S REQUIREMENTS, THAT THE SOFTWARE WILL OPERATE IN COMBINATIONS OTHER THAN AS SPECIFIED IN AVEVA DOCUMENTATION OR THAT THE OPERATION OF THE SOFTWARE WILL BE UNINTERRUPTED OR ERROR-FREE.

IN NO EVENT WILL AVEVA OR ITS SUPPLIERS, DEALERS, DISTRIBUTORS, AGENTS OR EMPLOYEES BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, OR DAMAGES FOR LOSS OF PROFITS, REVENUE, DATA OR USE, INCURRED BY CUSTOMER OR ANY THIRD PARTY, WHETHER IN AN ACTION IN CONTRACT OR TORT, EVEN IF AVEVA HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. AVEVA LIABILITY FOR DAMAGES AND EXPENSES HEREUNDER OR RELATING HERETO (WHETHER IN AN ACTION IN CONTRACT, TORT OR OTHERWISE) WILL IN NO EVENT EXCEED THE AMOUNT OF ONE HUNDRED DOLLARS ($100 USD).