OPC Foundation Security Bulletin

Security Update for the OPC UA .NET Standard Stack

Published: May 18th, 2021
Version: 1.0

Executive Summary

This security update resolves a vulnerability in OPC UA Servers built with the OPC UA .NET Standard stack that could allow a malicious actor to trigger a stack overflow.

Vendors that incorporate the OPC UA .NET stack into their products must update their products.

This security update has a base score of 7.5 (high) using the CVSS v3.1 guidelines.

The CVSS vector string is:
CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H

Affected Software

The following software has been updated to address the issue:

<table>
<thead>
<tr>
<th>Download</th>
<th>Release Date</th>
<th>Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>UA-.NETStandard Stack</td>
<td></td>
<td>This version or any version after it. Commit in GitHub on 2021-02-25 <a href="https://github.com/OPCFoundation/UA-.NETStandard/releases/tag/1.4.365.48">https://github.com/OPCFoundation/UA-.NETStandard/commit/c541994ca230f&lt;omitted&gt;</a></td>
</tr>
<tr>
<td>UA-.NET-Legacy</td>
<td></td>
<td>This version or any version after it. Commit in GitHub on 2021-02-25 <a href="https://github.com/OPCFoundation/UA-.NET-Legacy/commit/d1b1fe17a27b687d13402b369af657e98f6e9d27">https://github.com/OPCFoundation/UA-.NET-Legacy/commit/d1b1fe17a27b687d13402b369af657e98f6e9d27</a></td>
</tr>
</tbody>
</table>
OPC Foundation Vulnerability Information

Vulnerabilities and Exposures list:

<table>
<thead>
<tr>
<th>Vulnerability</th>
<th>CVE number</th>
<th>Publicly disclosed</th>
<th>Exploited</th>
</tr>
</thead>
<tbody>
<tr>
<td>CWE-674 Uncontrolled Recursion</td>
<td>CVE-2021-27432</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Mitigating Factors

None.

Workarounds

None.

Acknowledgments

Eran Jacob with the Otorio Research Team reported this vulnerability to CISA.

The CISA advisory can be found here: https://us-cert.cisa.gov/ics/advisories/icsa-21-133-03

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Revisions

- V1.0 (May 18th, 2021): Bulletin published.