OPC Foundation Security Bulletin

Security Update for the OPC UA .NET Standard Stack

Published: July 15th, 2022
Version: 1.1

Executive Summary

This security update resolves a vulnerability in the OPC UA .NET Standard Stack that allows a malicious client to trigger a stack overflow exception in a server that exposes an HTTPS endpoint.

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

The CVSS vector string is:
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>Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPCFoundation/UA-.NETStandard</td>
<td>GitHub Tag</td>
</tr>
<tr>
<td>This version or any version after it.</td>
<td><a href="https://github.com/OPCFoundation/UA-.NETStandard/tree/1.4.368.58">https://github.com/OPCFoundation/UA-.NETStandard/tree/1.4.368.58</a></td>
</tr>
<tr>
<td>OPCFoundation/UA-.NET-Legacy</td>
<td>GitHub Commit</td>
</tr>
<tr>
<td>This version or any version after it.</td>
<td><a href="https://github.com/OPCFoundation/UA-.NET-Legacy/commit/b4b4d91a9244e181e9f60f1654c830d469d8083a">https://github.com/OPCFoundation/UA-.NET-Legacy/commit/b4b4d91a9244e181e9f60f1654c830d469d8083a</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><strong>CWE-400</strong> Uncontrolled Resource Consumption.</td>
<td>CVE-2022-29866</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Mitigating Factors**

Only affects servers with an HTTPS endpoint.

**Workarounds**

Disable HTTPS endpoints.

**Acknowledgments**

The OPC Foundation recognizes Uriya Yavnieli of JFrog Security Research Team working with Trend Micro Zero Day Initiative for discovering and reporting this issue.

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**Revisions**

- V1.0 (May 1st, 2022): Bulletin published.
- V1.1 (July 15th, 2022): Added update to UA-.NET-Legacy codebase.