OPC Foundation Security Bulletin

Security Update for the OPC UA .NET Standard Stack

Published: May 1st, 2022
Version: 1.0

Executive Summary

This security update resolves a vulnerability in the OPC UA .NET Standard Stack that allows a malicious client or server to cause a peer to hang with a carefully crafted message sent during secure channel creation.

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><a href="https://github.com/OPCFoundation/UA-.NETStandard/tree/1.4.368.58">GitHub Tag</a></td>
</tr>
<tr>
<td>This version or any version after it.</td>
<td><a href="https://github.com/OPCFoundation/UA-.NET-Legacy/tree/35199e43d46f0eef793cace12baa806838dda2c">GitHub Commit</a></td>
</tr>
<tr>
<td>OPCFoundation/UA-.NET-Legacy</td>
<td></td>
</tr>
<tr>
<td>This version or any version after it.</td>
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</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-835 Loop with Unreachable Exit Condition ('Infinite Loop').</strong></td>
<td>CVE-2022-29862</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

### Mitigating Factors
None.

### Workarounds
Use a physically secured network where unauthorized machines cannot connect.

### Acknowledgments
The OPC Foundation recognizes the Florian Kohnhäuser at ABB for discovering and reporting this issue.

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### Revisions
- V1.0 (May 1st, 2022): Bulletin published.