OPC Foundation Security Bulletin

Security Update for the OPC UA Stacks

Published: September 12th, 2018
Version: 1.0

Executive Summary

This security update resolves a vulnerability in OPC UA applications where an attacker trigger could stack overflow by sending carefully structured requests.

Vendors need to ensure their applications use the latest stacks.

This security update is rated 7.5 (High) using the CVSS v3.0 guidelines.

The CVSS vector string is:

Affected Software

The following software downloads provided by the OPC Foundation are affected:

<table>
<thead>
<tr>
<th>Download</th>
<th>Release Date</th>
<th>Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>UA-.NET-Legacy Stack and Sample Code</td>
<td>Any version after date of fix.</td>
<td>Commit in GitHub on 2018-07-05.</td>
</tr>
<tr>
<td>UA-AnsiC Stack</td>
<td>Any version after date of fix.</td>
<td>Commit in GitHub on 2017-01-19.</td>
</tr>
<tr>
<td>UA-Java Stack</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
OPC Foundation Vulnerability Information

CVE-2018-12086

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>Buffer overflow in OPC UA applications allows remote attackers to trigger a stack overflow with carefully structured requests.</td>
<td>CVE-2018-12086</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Mitigating Factors

Not applicable.

Workarounds

Not applicable.

Acknowledgments

The OPC Foundation recognizes Bernd Edlinger at Softing for discovering and reporting this issue.

Disclaimer

The information provided in this disclosure is provided "as is" without warranty of any kind. OPC Foundation disclaims all warranties, either express or implied, including the warranties of merchantability and fitness for a particular purpose. In no event shall OPC Foundation or its suppliers be liable for any damages whatsoever including direct, indirect, incidental, consequential, loss of business profits or special damages, even if OPC Foundation or its suppliers have been advised of the possibility of such damages. Some states do not allow the exclusion or limitation of liability for consequential or incidental damages so the foregoing limitation may not apply.

Revisions

- V1.0 (September 12th, 2018): Bulletin published.