Softing Security Bulletin

Security Update for OPC UA C++ SDK
Published: 08.11.2021
Version: 1.0

Executive Summary
This security update resolves a vulnerability in the Softing OPC UA C++ SDK Client Functionality. Remote attackers may cause a denial of service (DoS) by sending carefully crafted messages. The client process may crash unexpectedly because of a wrong type-cast and must be restarted. This security update has a base score of 6.5 (medium) using the CVSS v3.1 guidelines.

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

Affected Software
The following software has been updated to address the issue:

OPC UA C++ SDK - affected: all versions up to 5.65, fixed: 5.66
TH SCOPE – affected: all versions from V3.5, fixed: N. A.
dataFEED OPC Suite – affected: all versions up to 5.17, fixed: 5.18
Secure Integration Server – affected: all versions up to 1.22, fixed: planned for 1.30

The latest version can be downloaded here:
https://industrial.softing.com/support/downloads.html

Softing Vulnerability Information

<table>
<thead>
<tr>
<th>Vulnerability</th>
<th>CVE Number</th>
<th>Publicly disclosed</th>
<th>Exploited</th>
</tr>
</thead>
<tbody>
<tr>
<td>CWE-20: Improper Input Validation</td>
<td>CVE-2021-40871</td>
<td>No</td>
<td>No</td>
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</tbody>
</table>

Mitigating Factors
The attack depends on the client to establish a connection to an untrusted and possibly compromised server.

Workarounds
Use a secure connection to avoid communication with untrusted servers.
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Revisions

• V1.0 (Date TBD): Bulletin published.