

# OPC Foundation Security Bulletin

## Security Update for Autogenerated ANSI C Stack Stubs

Published: March 1<sup>st</sup>, 2022

**Version:** 1.0

### Executive Summary

This security update resolves a vulnerability in the autogenerated ANSI C stack stubs that allows a malicious server to produce a null pointer error in the client. Any application that uses these stubs is affected including any application based on the OPCFoundation/UA-AnsiC-Legacy codebase.

This security update has a base score of 6.0 (medium) using the [CVSS v3.1](#) guidelines.

The CVSS vector string is:

AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:H/E:F/RL:O/RC:C

### Affected Software

The following software has been updated to address the issue:

Download	Release Date	Replacement
<a href="#">OPCFoundation/UA-NodeSet</a>		
This version or any version after it.		GitHub Commit d69b75a4b90ed21fbf57a330181f29c75fa2b072.  <a href="https://github.com/OPCFoundation/UA-NodeSet/commit/d69b75a4b90ed21fbf57a330181f29c75fa2b072">https://github.com/OPCFoundation/UA-NodeSet/commit/d69b75a4b90ed21fbf57a330181f29c75fa2b072</a>

### OPC Foundation Vulnerability Information

Vulnerabilities and Exposures list:

Vulnerability	CVE number	Publicly disclosed	Exploited
<a href="#">CWE-476</a> NULL Pointer Dereference	CVE-2021-45117	No	No

## **Mitigating Factors**

Exploiting this vulnerability requires a client to choose to connect to a malicious server or an attacker who can manipulate packets as they travel across the network.

## **Workarounds**

Do not connect to servers that have been discovered via mDNS, an LDS, an untrusted GDS, or a trusted GDS using SecurityMode=None. Do not call FindServers or GetEndpoints with SecurityMode=None.

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## **Revisions**

- V1.0 (March 1<sup>st</sup>, 2022): Bulletin published.