

OPC Foundation Security Bulletin

Security Update for OPC UA .NET Sample Applications

Published: July 31th, 2017

Version: 1.0

Executive Summary

This security update resolves a vulnerability that allows attackers to execute arbitrary code on vulnerable installations of OPC UA .NET Sample Code which include the OPC UA Configuration Tool software. User interaction is required to exploit this vulnerability in that the malicious DLL file must be saved in any of the DLL search paths.

Vendors that incorporated the OPC UA Configuration Tool into their products must update their products.

This security update is rated 4.9 (medium) using the [CVSS v3.0](#) guidelines.

The CVSS vector string is:

CVSS:3.0/AV:L/AC:H/PR:H/UI:R/S:U/C:L/I:H/A:H/E:U/RL:O/RC:R/CR:L/IR:L/AR:L/MAV:L/MAC:H/MPR:H/MUI:R/MS:U/MC:N/MI:H/MA:H

Affected Software

The following software downloads are affected:

Download	Release Date	Replacement
.NET Stack and Sample Applications		
1.02.336.0	2015-06-25	The OPC Foundation no longer publishes pre-built binaries for this deliverable. The source code can be found here: OPCFoundation/UA-.NET

OPC Foundation Vulnerability Information

CVE-2017-12070

Vulnerabilities and Exposures list:

Vulnerability	CVE number	Publicly disclosed	Exploited

Unsigned versions of the DLLs distributed by the OPC Foundation may be replaced with malicious code.	CVE-2017-12070	No	Yes
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Mitigating Factors

This exploit appears to be related to a flaw in an older version of the .NET framework and the OPC Foundation was not able to reproduce it. That said, some binaries distributed by the OPC Foundation were missing a strong name and vendors should stop using these versions

Workarounds

Vendors can add their own strong name to any DLLs downloaded from the OPC Foundation website.

Acknowledgments

The OPC Foundation recognizes the US Department of Homeland Security for reporting this issue.

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Revisions

- V1.0 (July 31th, 2017): Bulletin published.