

OPC Foundation Security Bulletin

Security Update for OPC UA Applications using .NET 4.5.1 or earlier

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Version: 1.0

Executive Summary

This security update resolves a vulnerability in .NET applications built against the .NET Framework 4.5.1 or earlier that allowed remote attackers to read any file on a file system. This was documented originally by Microsoft in [CVE-2015-6096](#).

Users that are deploying OPC UA .NET products built against the NET 4.5.1 or earlier Framework must contact their supplier of their product to determine if an update is needed.

The OPC Foundation recommends that OPC UA users avoid using end of life versions of the .NET Framework because of the risk of unpatched vulnerabilities.

This security update has a base score of 7.2 (high) using the [CVSS v3.1](#) guidelines.

The CVSS vector string is:

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:L/I:N/A:L

Affected Software

The following software has been updated to address the issue:

Download	Release Date	Replacement
Unified Automation .NET based OPC UA Client/Server SDK Bundle		
This version or any version after it.		V3.0.9

OPC Foundation Vulnerability Information

Vulnerabilities and Exposures list:

Vulnerability	CVE number	Publicly disclosed	Exploited
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CWE-200 Exposure of Sensitive Information to an Unauthorized Actor	CVE-2021-27434	No	No
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Mitigating Factors

Only affects products built against .NET 4.5.1 or earlier Framework.

Workarounds

It is usually possible to upgrade to a version of the product that uses .NET 4.5.2 Framework or later.

Acknowledgments

Eran Jacob with the Otorio Research Team reported this vulnerability to CISA.

The CISA advisory can be found here: <https://us-cert.cisa.gov/ics/advisories/icsa-21-133-04>

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Revisions

- V1.0 (May 18th, 2021): Bulletin published.