

OPC Foundation Security Bulletin

Security Update for the OPC UA .NET Standard Stack

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Version: 1.0

Executive Summary

This security update resolves a vulnerability in the OPC UA .NET Standard Stack that allows an unauthorized attacker to bypass application authentication when the deprecated Basic128Rsa15 security policy is enabled.

Note that the Basic128Rsa15 is disabled by default so most users will not be affected. When this patch is applied the Server closes all channels using the Basic128Rsa15 if an attack is detected. This introduces a DoS before any compromise can occur which is preferable to a compromise. To prevent this failure, applications must stop using Basic128Rsa15.

This security update has a base score of 5.9 (Medium) using the [CVSS v3.1](#) guidelines.

The CVSS vector string is:

[CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N](#)

Affected Software

The following software has been updated to address the issue:

| Download | Replacement |
|---|---|
| OPCFoundation/UA-.NETStandard | |
| This version or any version after it. | 1.5.374.158 GitHub Commit: https://github.com/OPCFoundation/UA-.NETStandard/tree/1.5.374.158 |

OPC Foundation Vulnerability Information

Vulnerabilities and Exposures list:

| Vulnerability | CVE number | Publicly disclosed | Exploited |
|---|-------------------|---------------------------|------------------|
| CWE-208 : Observable Timing Discrepancy | CVE-2024-42512 | No | No |

Mitigating Factors

The vulnerability only exists when an endpoint is exposed that uses the Basic128Rsa15 security policy.

Workarounds

Disable the Basic128Rsa15 security policy.

Acknowledgments

The OPC Foundation thanks Tom Tervoort, from Secura B.V. (<https://www.secura.com/>) for reporting this issue.

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Revisions

- V1.0 (February 9th, 2025): Bulletin published.