# **OPC Foundation Security Bulletin**

## Security Update for the OPC UA Java and .NET Stack

Published: September 12th, 2018

Version: 1.0

## **Executive Summary**

This security update resolves an XXE vulnerability in the OPC UA Java and .NET Legacy Stacks that allowed remote attackers to send carefully constructed requests that caused an OPC UA to access unauthorized sites and potentially causing a denial of service.

Vendors that incorporated the OPC UA Java or .NET Legacy Stack into their product must update their products.

This security update is rated 8.2 (high) using the CVSS v3.0 guidelines.

The CVSS vector string is:

#### **Affected Software**

The following software downloads are affected:

Download	Release Date	Replacement			
Java Stack					
Any version prior to date of fix.		Commit in GitHub on 2018-06-06.			
.NET Legacy Stack					
Any version p	orior to date of fix.	Commit in GitHub on 2018-07-05.			

### **OPC Foundation Vulnerability Information**

CVE-2018-12585

Vulnerabilities and Exposures list:

Vulnerability	CVE number	Publicly disclosed	Exploited
An XXE vulnerability in the OPC UA Java and .NET Legacy Stack can allow remote attackers to trigger a denial of service.	CVE-2018-12585	Yes	No

#### **Mitigating Factors**

The code that accesses the attacker's URL should ignore any response that is not a valid XML DTD. This means the exploit cannot be used to trigger execution of programs on the target machine, however, it could be used as a denial of service attack.

#### **Workarounds**

The OPC Foundation has not identified any workarounds for this vulnerability.

### Acknowledgments

The OPC Foundation recognizes the Prosys OPC Ltd for identifying and reporting this issue.

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#### **Revisions**

• V1.0 (September 12<sup>th</sup>, 2018): Bulletin published.