



# Stack overflow parsing XML with deeply nested DTD content models

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF](#)

## Summary

<b>CVE</b>	CVE-2026-4224
<b>State</b>	PUBLISHED
<b>Assigner</b>	PSF
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2026-03-16 18:16:10 UTC
<b>Updated</b>	2026-04-08 13:16:41 UTC
<b>Description</b>	When an Expat parser with a registered ElementDeclHandler parses an inline document type definition containing a deeply

## Risk And Classification

**Primary CVSS:** v4.0 6 MEDIUM from cna@python.org

CVSS:4.0/AV:N/AC:L/AT:P/PR:L/UI:N/VC:N/VI:N/VA:H/SC:N/SI:N/SA:N/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

**Problem Types:** CWE-674 | CWE-674 CWE-674 Uncontrolled Recursion

Version	Source	Type	Score	Severity	Vector
4.0	cna@python.org	Secondary	6	MEDIUM	CVSS:4.0/AV:N/AC:L/AT:P/PR:L/UI:N/VC:N/VI:N/VA:H/SC:N/SI:N/SA:N/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X
4.0	CNA	CVSS	6	MEDIUM	CVSS:4.0/AV:N/AC:L/AT:P/PR:L/UI:N/VC:N/VI:N/VA:H/SC:N/SI:N/SA:N

## CVSS v4.0 Breakdown

Attack Vector

Network

Attack Complexity

Low

Attack Requirements

Present

Privileges Required

Low

User Interaction

None

Confidentiality

None

Integrity

None

Availability

High

Sub Conf.

None

Sub Integrity

None

Sub Availability

None

CVSS:4.0/AV:N/AC:L/AT:P/PR:L/UI:N/VC:N/VI:N/VA:H/SC:N/SI:N/SA:N/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

### Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	<a href="#">Python Software Foundation</a>	CPython	affected 3.13.13 python	Not specified
CNA	<a href="#">Python Software Foundation</a>	CPython	affected 3.14.0 3.14.4 python	Not specified
CNA	<a href="#">Python Software Foundation</a>	CPython	affected 3.15.0a1 3.15.0a8 python	Not specified

### References

Reference	Source	Link
<a href="https://github.com/python/cpython/commit/e0a8a6da90597a924b300debe045cdb4628ee1f3">github.com/python/cpython/commit/e0a8a6da90597a924b300debe045cdb4628ee1f3</a>	<a href="mailto:cna@python.org">cna@python.org</a>	<a href="#">github.</a>
<a href="https://mail.python.org/archives/list/security-announce@python.org/thread/5M7CGUW3XBR...">mail.python.org/archives/list/security-announce@python.org/thread/5M7CGUW3XBR...</a>	<a href="mailto:cna@python.org">cna@python.org</a>	<a href="#">mail.py</a>
<a href="https://github.com/python/cpython/commit/eb0e8be3a7e11b87d198a2c3af1ed0eccf532768">github.com/python/cpython/commit/eb0e8be3a7e11b87d198a2c3af1ed0eccf532768</a>	<a href="mailto:cna@python.org">cna@python.org</a>	<a href="#">github.</a>
<a href="https://github.com/python/cpython/commit/642865ddf4b232da1f3b1f7abcfa3254c4bfe785">github.com/python/cpython/commit/642865ddf4b232da1f3b1f7abcfa3254c4bfe785</a>	<a href="mailto:cna@python.org">cna@python.org</a>	<a href="#">github.</a>
<a href="https://github.com/python/cpython/commit/196edfb06a7458377d4d0f4b3cd41724c1f3bd4a">github.com/python/cpython/commit/196edfb06a7458377d4d0f4b3cd41724c1f3bd4a</a>	<a href="mailto:cna@python.org">cna@python.org</a>	<a href="#">github.</a>
<a href="https://github.com/python/cpython/issues/145986">github.com/python/cpython/issues/145986</a>	<a href="mailto:cna@python.org">cna@python.org</a>	<a href="#">github.</a>
<a href="https://github.com/python/cpython/pull/145987">github.com/python/cpython/pull/145987</a>	<a href="mailto:cna@python.org">cna@python.org</a>	<a href="#">github.</a>
<a href="https://github.com/python/cpython/commit/af856a7177326ac25d9f66cc6dd28b554d914fee">github.com/python/cpython/commit/af856a7177326ac25d9f66cc6dd28b554d914fee</a>	<a href="mailto:cna@python.org">cna@python.org</a>	<a href="#">github.</a>
<a href="https://www.openwall.com/lists/oss-security/2026/03/16/4">www.openwall.com/lists/oss-security/2026/03/16/4</a>	<a href="#">af854a3a-2127-422b-91ae-364da2661108</a>	<a href="#">www.o</a>
CVE Program record	CVE.ORG	<a href="#">www.c</a>
NVD vulnerability detail	NVD	<a href="#">nvd.nis</a>

### Vendor Comments And Credit

Discovery Credit

**CNA:** Gil Portnoy (en)

**CNA:** Stan Ulbrich (en)

**CNA:** Bénédict Tran (en)

**CNA:** Stan Ulbrych (en)

There are currently no legacy QID mappings associated with this CVE.

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