



# OpenC3 COSMOS: Arbitrary write to plugins directory via path-traversed config filenames

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

## Summary

<b>CVE</b>	CVE-2026-42085
<b>State</b>	PUBLISHED
<b>Assigner</b>	GitHub_M
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2026-05-04 18:16:30 UTC
<b>Updated</b>	2026-05-04 19:16:04 UTC

**Description** OpenC3 COSMOS provides the functionality needed to send commands to and receive data from one or more embedded s

## Risk And Classification

**Primary CVSS:** v3.1 4.3 MEDIUM from security-advisories@github.com

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

**Problem Types:** CWE-23 | CWE-23 CWE-23: Relative Path Traversal

Version	Source	Type	Score	Severity	Vector
3.1	security-advisories@github.com	Secondary	4.3	MEDIUM	CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:N
3.1	CNA	DECLARED	4.3	MEDIUM	CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:N

## CVSS v3.1 Breakdown

Attack Vector

Network

Attack Complexity

Low

Privileges Required

Low

User Interaction

None

Scope

Unchanged

Confidentiality

None

Integrity

Low

Availability

None

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

### Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	<a href="#">OpenC3</a>	<a href="#">Cosmos</a>	affected < 6.10.5	Not specified
CNA	<a href="#">OpenC3</a>	<a href="#">Cosmos</a>	affected >= 7.0.0.pre.rc1, < 7.0.0-rc3	Not specified

### References

Reference	Source	Link
<a href="https://github.com/OpenC3/cosmos/commit/e6efccbd148ba0e3361c5891027f2373aa140d42">github.com/OpenC3/cosmos/commit/e6efccbd148ba0e3361c5891027f2373aa140d42</a>	security-advisories@github.com	<a href="#">github.co</a>
<a href="https://github.com/OpenC3/cosmos/releases/tag/v6.10.5">github.com/OpenC3/cosmos/releases/tag/v6.10.5</a>	security-advisories@github.com	<a href="#">github.co</a>
<a href="https://github.com/OpenC3/cosmos/commit/9957a9fa460c0c0cf5cdbf6a5931bbdd025246a5">github.com/OpenC3/cosmos/commit/9957a9fa460c0c0cf5cdbf6a5931bbdd025246a5</a>	security-advisories@github.com	<a href="#">github.co</a>
<a href="https://github.com/OpenC3/cosmos/security/advisories/GHSA-4jvx-93h3-f45h">github.com/OpenC3/cosmos/security/advisories/GHSA-4jvx-93h3-f45h</a>	134c704f-9b21-4f2e-91b3-4a467353bcc0	<a href="#">github.co</a>
<a href="https://github.com/OpenC3/cosmos/releases/tag/v7.0.0-rc3">github.com/OpenC3/cosmos/releases/tag/v7.0.0-rc3</a>	security-advisories@github.com	<a href="#">github.co</a>
CVE Program record	CVE.ORG	<a href="#">www.cve</a>
NVD vulnerability detail	NVD	<a href="#">nvd.nist.g</a>

No vendor comments have been submitted for this CVE.

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

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