



CVE-2020-10023

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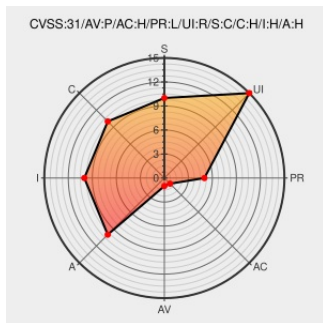
CVE-2020-10023

[Source: Mitre](#)

[Source: NIST](#)

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Certain versions of [Zephyr](#) from [Zephyrproject](#) contain the following vulnerability:

The shell subsystem contains a buffer overflow, whereby an adversary with physical access to the device is able to cause a memory corruption, resulting in denial of service or possibly code execution within the Zephyr kernel. See NCC-NCC-019 This issue affects: zephyrproject-rtos zephyr version 1.14.0 and later versions. version 2.1.0 and later versions.

CVE-2020-10023 has been assigned by vulnerabilities@zephyrproject.org to track the vulnerability - currently rated as **MEDIUM** severity.

Affected Vendor/Software: [zephyrproject-rtos](#) - **zephyr** version **>= 1.14.0**

Affected Vendor/Software: [zephyrproject-rtos](#) - **zephyr** version **>= 2.1.0**

CVSS3 Score: **6.8 - MEDIUM**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
PHYSICAL	LOW	NONE	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	HIGH	HIGH	HIGH

CVSS2 Score: **4.6 - MEDIUM**

Access Vector	Access Complexity	Authentication
LOCAL	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
shell: utils: Fix buffer overrun in shell_spaces_trim by ceolin · Pull Request #23304 · zephyrproject-rtos/zephyr · GitHub	Patch Third Party Advisory github.com text/html	 MISC github.com/zephyrproject-rtos/zephyr/pull/23304
[ZEPSEC-29] Shell Subsystem Contains a Buffer Overflow Vulnerability In shell_spaces_trim - Zephyr Project Security Issues	Third Party Advisory zephyrprojectsec.atlassian.net text/html	 MISC zephyrprojectsec.atlassian.net/browse/ZEPSEC-29
Vulnerabilities — Zephyr Project Documentation	docs.zephyrproject.org text/html	 MISC docs.zephyrproject.org/latest/security/vulnerabilities.html#cve-2020-10023
Backport v1.14: shell: utils: Fix buffer overrun in shell_spaces_trim by ceolin · Pull Request #23646 · zephyrproject-rtos/zephyr · GitHub	Patch Third Party Advisory github.com text/html	 MISC github.com/zephyrproject-rtos/zephyr/pull/23646
Backport v2.1: shell: utils: Fix buffer overrun in shell_spaces_trim by ceolin · Pull Request #23649 · zephyrproject-rtos/zephyr · GitHub	Patch Third Party Advisory github.com text/html	 MISC github.com/zephyrproject-rtos/zephyr/pull/23649

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Zephyrproject	Zephyr	1.14.1	All	All	All
Operating System	Zephyrproject	Zephyr	2.1.0	All	All	All
Operating System	Zephyrproject	Zephyr	1.14.1	All	All	All
Operating System	Zephyrproject	Zephyr	2.1.0	All	All	All
cpe:2.3:o:zephyrproject:zephyr:1.14.1:*****:						
cpe:2.3:o:zephyrproject:zephyr:2.1.0:*****:						
cpe:2.3:o:zephyrproject:zephyr:1.14.1:*****:						
cpe:2.3:o:zephyrproject:zephyr:2.1.0:*****:						

Discovery Credit

NCC Group for report

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