



CVE-2018-1000800

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[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

CVSS:30/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H



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

zephyr-rtos version 1.12.0 contains a NULL base pointer reference vulnerability in `sys_ring_buf_put()`, `sys_ring_buf_get()` that can result in CPU Page Fault (error code 0x00000010). This attack appear to be exploitable via a malicious application call the vulnerable kernel APIs (system `sys_ring_buf_get()` and `sys_ring_buf_put`).

CVE-2018-1000800 has been assigned by [M](#) [cve@mitre.org](#) to track the vulnerability - currently rated as **CRITICAL** severity.

CVSS3 Score: **9.8 - CRITICAL**

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

CVSS2 Score: **7.5 - HIGH**

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

CVE References

Description	Tags	Link
get FAULT when fuzzing <code>sys_ring_buf_put</code> and <code>sys_ring_bug_get</code> APIs · Issue #7638 · zephyrproject-rtos/zephyr · GitHub	Exploit Third Party Advisory github.com	CONFIRM github.com/zephyrproject-rtos/zephyr/issues/7638

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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	1.12.0	All	All	All
Operating System	Zephyrproject	Zephyr	1.12.0	All	All	All
cpe:2.3:o:zephyrproject:zephyr:1.12.0:*:*:*:*:*:						
cpe:2.3:o:zephyrproject:zephyr:1.12.0:*:*:*:*:*:						

No vendor comments have been submitted for this CVE

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