

## Security Bulletin

# Intel Virtual RAID on CPU VROC

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CVE-2023-35003

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## List of changes

Version	Date	Description
0.1	2024/01/21	Initial Eviden internal neutralization version (embargoed)
0.2	2024/02/27	TLP changed for GREEN
2.3	2024/03/14	TLP changed for CLEAR. Reference links added. Fixing typo in keywords.

## Executive summary

Eviden is liaising closely with its suppliers and investigating the exact nature of these vulnerabilities to provide validated remediation.

Intel reported Technical Advisory about potential security vulnerabilities in some Intel Virtual RAID on CPU (VROC) software which may allow escalation of privilege. Intel is releasing software updates to mitigate these potential vulnerabilities.

Only Windows users may be affected by this vulnerability. They need to upgrade their Intel® VROC software to version 8.0.8.1001. The corresponding VROC UEFI driver remains unchanged.

## Vulnerability Info

CVE No.	CVSS Score	Type of Vulnerability
<a href="#">CVE-2023-31271</a>	6.7	TBD <a href="#">AV:L/AC:H/PR:L/UI:R/S:U/C:H/I:H/A:H</a>
<a href="#">CVE-2023-32646</a>	6.7	TBD <a href="#">AV:L/AC:H/PR:L/UI:R/S:U/C:H/I:H/A:H</a>
<a href="#">CVE-2023-34315</a>	6.7	TBD <a href="#">AV:L/AC:H/PR:L/UI:R/S:U/C:H/I:H/A:H</a>
<a href="#">CVE-2023-35003</a>	6.7	TBD <a href="#">AV:L/AC:H/PR:L/UI:R/S:U/C:H/I:H/A:H</a>

**CVE-2023-31271**

Improper access control in some Intel® VROC software before version 8.0.8.1001 may allow an authenticated user to potentially enable escalation of privilege via local access.

**CVE-2023-32646**

Uncontrolled search path element in some Intel® VROC software before version 8.0.8.1001 may allow an authenticated user to potentially enable escalation of privilege via local access.

**CVE-2023-34315**

Incorrect default permissions in some Intel® VROC software before version 8.0.8.1001 may allow an authenticated user to potentially enable escalation of privilege via local access.

**CVE-2023-35003**

Path transversal in some Intel® VROC software before version 8.0.8.1001 may allow an authenticated user to potentially enable escalation of privilege via local access.

**Affected products**

No modification of the BIOS products is estimated needed at the time. Hence, Eviden's platforms are not affected.

Products	Fixed version	Status	Comments
Intel's VROC package for Windows	8.0.8.1001	Affected	This version is part of Intel Best Known Configuration PLR5.

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**Recommendations**

Eviden recommends applying its Technical States upgrade on its servers as soon as they are made available.

Intel recommends updating Intel® VROC software to version 8.0.8.1001 or later.

**Available Vendor Patches**

Updates are available for download at this location:

<https://www.intel.com/content/www/us/en/secure/design/confidential/software-kits/kitdetails.html?kitId=783316>

## Available Workarounds

No workaround is available.

## Available Mitigations

No mitigation identified.

## Available Exploits/PoC

Eviden is not aware of any exploitation of the reported vulnerabilities.

## References

1. <https://www.intel.com/content/www/us/en/secure/design/confidential/software-kits/kitdetails.html?kitId=783316>
2. <https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00953.html>

## Glossary of terms

Term	Description
Mitigation	Refers to a setting, common configuration, or general best-practice, existing in a default state that could reduce the severity of exploitation of a vulnerability
Neutralization	The neutralization phase is the decision-making process during which the risk posed by an incident is evaluated.
PoC	Proof of Concept
Remediation	The remediation phase ends with the delivering of a qualified solution/update fixing the vulnerability without regression.
TI	Threat Intelligence
TLP	Traffic Light Protocol (TLP) FIRST Standards Definitions and Usage Guidance — Version 2.0. <a href="https://www.first.org/tlp/">https://www.first.org/tlp/</a>
Workaround	Refers to a setting or configuration change that does not correct the underlying vulnerability but would help block known attack vectors before you apply the update

## About this document

Eviden continuously monitors the security of its products. This Security Bulletin is shared under the constraints of the FIRST Traffic Light Protocol version 2.0 (TLP) to bring attention of owners of the potentially affected Eviden products. Eviden recommends that all product owners determine whether the described situation is applicable to their individual case and take appropriate action.

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- Neutralization security bulletins are numbered 0.x
- Privately disclosed Remediation security bulletins are numbered 1.x
- Publicly disclosed Remediation security bulletins are numbered 2.x

Updated versions of this document can be found on:

- <https://support.bull.com/ols/product/security/psirt>

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