

Security Bulletin

Vulnerability in libarchive

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TLP:CLEAR

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List of changes

Version	Date	Description
0.1	2025/10/09	Initial Eviden version

Executive summary

A flaw was found in the libarchive package. Affected versions of libarchive do not check a strttime return value, which can lead to a denial of service or unspecified other impacts via a crafted TAR archive that is read with a verbose value of 2. For example, the 100-byte buffer may not be sufficient for a custom locale.

Within regulated environments, a combination of the following controls acts as a significant barrier to successfully exploiting a CWE-252: Unchecked Return Value vulnerability and therefore downgrades the severity of this particular CVE from Moderate to Low.\n\nReturn values from critical operations are consistently evaluated through enforced development standards and automated static analysis, reducing the likelihood of logic flaws or silent failures reaching production. Error-handling routines are integrated into application behavior to ensure that failures are properly logged, traced, and contained, maintaining system stability under fault conditions. Additionally, the platform is designed to respond to errors predictably, preventing uncontrolled behavior and ensuring that processes fail in a known, recoverable state.

Vulnerability Info

CVE No.	CVSS Score	Type of Vulnerability
CVE-2025-25724	4.0	CWE-252 Unchecked Return Value

Eviden is investigating the exact nature of these vulnerabilities to provide validated remediation.

Affected components

Products	Fixed version	Status	Comments
Libarchive	3.7.7	Fixed	

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TBD (to be defined) indicates that a new version fixing the vulnerabilities is under study.

Unpatched means that the vulnerability is presumably present, but there is no plan to provide a fix. This can be investigated on demand.

List of HPC Management products

Products	Fixed version	Status	Comment
BullSequana ARGOS	2.0	Fixed	Affected version: 1.1. BullSequana ARGOS 2.0 replaced SDMS and BullSequana ARGOS 1.1
SDMS	BullSequana ARGOS 2.0	Fixed	Affected version: SDMS 5.x. BullSequana ARGOS 2.0 replaced SDMS and BullSequana ARGOS 1.1

Recommendations

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

Available Vendor Patches

No validated patch is available at the time. Eviden is working with its suppliers to distribute updates as soon as possible.

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://access.redhat.com/errata/RHSA-2025:9420>
2. <https://access.redhat.com/security/cve/CVE-2025-25724>
3. <https://gist.github.com/Ekkosun/a83870ce7f3b7813b9b462a395e8ad92>
4. <https://github.com/Ekkosun/pocs/blob/main/bsdtarbug>
5. <https://github.com/libarchive/libarchive/blob/b439d586f53911c84be5e380445a8a259e19114c/tar/util.c#L751-L752>

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. https://www.first.org/tlp/
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 the 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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