

Security Bulletin

Vulnerability in MongoDB

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List of changes

Version	Date	Description
0.1	2024/11/11	Initial Eviden version
1.2	2025/01/28	Status changed for remediation
2.3	2025/02/20	TLP changed for CLEAR
2.4	2025/03/27	CVE-2025-0755 added to bulletin
2.5	2025/03/29	Minor change in wording to clarify the independence between OneBSM and MongoDB server version. Fix version recommended for Mongo DB 7.0 branch (16 instead of 15).
2.6	2025/11/18	CVE-2025-3083, CVE-2025-3082, CVE-2025-3085 added to bulletin

Executive summary

MongoDB informed that unique index may cause secondaries to crash due to incorrect enforcement of index constraints on secondaries, where in extreme cases may cause multiple secondaries crashing leading to no primaries. This issue affects MongoDB Server v6.0 versions prior to 6.0.17, MongoDB Server v7.0 versions prior to 7.0.13 and MongoDB Server v7.3 versions prior to 7.3.4

Second vulnerability: an authorized user may trigger crashes or receive the contents of buffer over-reads of Server memory by issuing specially crafted requests that construct malformed BSON in the MongoDB Server. This issue affects MongoDB Server v5.0 versions prior to 5.0.30 , MongoDB Server v6.0 versions prior to 6.0.19, MongoDB Server v7.0 versions prior to 7.0.15 and MongoDB Server v8.0 versions prior to and including 8.0.2.

Third vulnerability (CVE-2025-0755) is in MongoDB C driver. The various bson_append functions in the MongoDB C driver library may be susceptible to buffer overflow when performing operations that could result in a final BSON document which exceeds the maximum allowable size (INT32_MAX), resulting in a segmentation fault and possible application crash. This issue affected libbson versions prior to 1.27.5, MongoDB Server v8.0 versions prior to 8.0.1 and MongoDB Server v7.0 versions prior to 7.0.16.

Fourth vulnerability CVE-2025-3082 - A user authorized to access a view may be able to alter the intended collation, allowing them to access to a different or unintended view of underlying data. This issue affects MongoDB Server v5.0 version prior to 5.0.31, MongoDB Server v6.0 version prior to 6.0.20, MongoDB Server v7.0 version prior to 7.0.14 and MongoDB Server v7.3 versions prior to 7.3.4.

Fifth vulnerability CVE-2025-3083 - Malformed MongoDB wire protocol messages may cause mongos to crash Specifically crafted MongoDB wire protocol messages can cause mongos to crash during command validation. This can occur without using an authenticated connection. This issue affects MongoDB v5.0 versions prior to 5.0.31, MongoDB v6.0 versions prior to 6.0.20 and MongoDB v7.0 versions prior to 7.0.16

Sixth vulnerability CVE-2025-3085 - When run on commands with certain arguments set, explain may fail to validate these arguments before using them. This can lead to crashes in router servers. This affects MongoDB Server v5.0 prior to 5.0.31, MongoDB Server v6.0 prior to 6.0.20, MongoDB Server v7.0 prior to 7.0.16 and MongoDB Server v8.0 prior to 8.0.4

Vulnerability Info

CVE No.	CVSS Score	Type of Vulnerability
CVE-2024-8305	6.5	CWE-1288 Improper Validation of Consistency within Input
CVE-2024-10921	6.8	CWE-158 Improper Neutralization of Null Byte or NUL Character
CVE-2025-0755	8.4	CWE-122 Heap-based Buffer Overflow
CVE-2025-3083	7.3	CWE-248 Uncaught Exception
CVE-2025-3082	7.5	CWE-248 Uncaught Exception
CVE-2025-3085	6.5	CWE-248 Uncaught Exception

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

Affected products

Products	Fixed version	Status	Comments
MongoDB	5.0.30 6.0.19 7.0.15 8.0.3	Fixed	Fix for CVE-2024-8305 CVE-2024-10921
MongoDB Server	8.0.1 7.0.16	Fixed	Fix for CVE-2025-0755

Although Eviden tries to provide accurate and complete information, Eviden shall not be liable if the above table is incomplete or erroneous. During its vulnerability analysis process, the information in this document is subject to change without notice to reflect new results of this analysis.

TBD (to be defined) indicates that a new technical state 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 affected products

Products	Fixed version	Status	Comment
OneBSM	1.0.1	Fixed	For already installed instances, it is recommended to update Mongo DB server.

Recommendations

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

Available Vendor Patches

MongoDB recommends to upgrade versions

- MongoDB Server v5.x versions prior to 5.0.31
- MongoDB Server v6.x versions prior to 6.0.20
- MongoDB Server v7.x versions prior to 7.0.16
- MongoDB Server 7.3.x versions prior to 7.3.4
- MongoDB Server v8.x versions prior to 8.0.4

Technical States links for Eviden servers are reminded in the table below.

Product	Technical State link
OneBSM	https://support.bull.com/ols/product/platforms/bullion/one-bsm/index.html

Available Workarounds

For CVE-2025-0755 Eviden recommends to update MongoDB. This can be done without full reinstallation.

Available Mitigations

No mitigation identified.

Available Exploits/PoC

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

References

1. <https://jira.mongodb.org/browse/SERVER-92382>
2. <https://www.cert.ssi.gouv.fr/avis/CERTFR-2024-AVI-0910/>
3. <https://jira.mongodb.org/browse/SERVER-96419>
4. <https://www.cert.ssi.gouv.fr/avis/CERTFR-2024-AVI-0989/>
5. <https://jira.mongodb.org/browse/SERVER-94461>

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

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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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