



Heap Buffer Overflow in Hexadecimal Conversion

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF](#)

Summary

| | |
|------------------------|---|
| CVE | CVE-2026-31789 |
| State | PUBLISHED |
| Assigner | openssl |
| Source Priority | CVE Program / NVD first with legacy fallback |
| Published | 2026-04-07 22:16:21 UTC |
| Updated | 2026-04-08 21:27:00 UTC |
| Description | Issue summary: Converting an excessively large OCTET STRING value to a hexadecimal string leads to a heap buffer over |

Risk And Classification

EPSS: 0.000110000 probability, percentile 0.012060000 (date 2026-04-09)

Problem Types: CWE-787 | CWE-787 CWE-787 Out-of-bounds Write

Vendor Declared Affected Products

| Source | Vendor | Product | Version | Platforms |
|--------|-------------------------|-------------------------|------------------------------|---------------|
| CNA | OpenSSL | OpenSSL | affected 3.6.0 3.6.2 semver | Not specified |
| CNA | OpenSSL | OpenSSL | affected 3.5.0 3.5.6 semver | Not specified |
| CNA | OpenSSL | OpenSSL | affected 3.4.0 3.4.5 semver | Not specified |
| CNA | OpenSSL | OpenSSL | affected 3.3.0 3.3.7 semver | Not specified |
| CNA | OpenSSL | OpenSSL | affected 3.0.0 3.0.20 semver | Not specified |

References

| Reference | Source | Link |
|--|--|-------------------------------------|
| openssl-library.org/news/secadv/20260407.txt | openssl-security@openssl.org | openssl-library.org |
| github.com/openssl/openssl/commit/7a9087efd769f362ad9c0e30c7baaa6bbfa65ecf | openssl-security@openssl.org | github.com |
| github.com/openssl/openssl/commit/364f095b80601db632b0def6a33316967f863bde | openssl-security@openssl.org | github.com |
| github.com/openssl/openssl/commit/945b935ac66cc7f1a41f1b849c7c25adb5351f49 | openssl-security@openssl.org | github.com |
| github.com/openssl/openssl/commit/a24216018e1ede8ff01a4ff5aff7dfbd443e2f9 | openssl-security@openssl.org | github.com |
| github.com/openssl/openssl/commit/a91e537d16d74050dbde50bb0dfb1fe9930f0521 | openssl-security@openssl.org | github.com |
| CVE Program record | CVE.ORG | www.cve.org |
| NVD vulnerability detail | NVD | nvd.nist.gov |

Vendor Comments And Credit

Discovery Credit

CNA: Quoc Tran (Xint.io - US Team) (en)

CNA: Igor Ustinov (en)

There are currently no legacy QID mappings associated with this CVE.

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