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sigd...
@si...

Security Advisory: CVE-2025-60464 - Use-After-Free in GPAC MP4Box SEI State Handling

Processing a crafted MPEG-2 TS file with MP4Box `info` can trigger a heap use-after-free in `gf_sei_load_from_state_internal()`, causing a crash and potential code execution.

Summary:
The `gf_sei_loa

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)` function
in
`filters/sei_
load.c` can
access
codec/SEI
state after
the related
heap buffer
has been
freed by
the NALU
demuxer
setup path.
When
MP4Box
processes
a specially
crafted
MPEG-2
Transport
Stream file
containing
malformed
AVC/HEVC
/VVC NAL
units and
corrupted
PMT
descriptors
,
`naludmx_c
onfigure_pi
d()` can
release a
state buffer
that is later
read during
SEI state

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CWE:
CWE-416 -
Use After
Free

Affected
Component:
...

filters/sei_load.c:225
Function:
gf_sei_load_from_state_internal()
...

Affected
Product:
MP4Box
(GPAC
Multimedia
Open
Source
Project)

Affected
Version:
The issue
was
reproduced
on:
...

GPAC
version:
2.5-DEV-
rev1557-
g62714f27
c-master

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```
64a3d1eb7
e880f9eed
2d38673cb
43ce
...`
```

The MITRE response states that GPAC Project/MP4Box before `26.02.0` is affected. Builds before the fix commit `8f404bd581e455267482f86272169a742f654b97` should be considered affected if they contain the vulnerable SEI state handling path.

Attack Conditions:
An attacker supplies a crafted MPEG-2 TS

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malformed
AVC/HEVC
/VVC
bitstream
data,
corrupted
PMT
descriptors
, and
invalid
NAL/SEI
state. The
issue can
be
reproduced
locally
with:

```
...  
  
./MP4Box -  
info  
32_filters_s  
ei_load_c_2  
25_in_gf_s  
ei_load_fro  
m_state_int  
ernal  
...
```

No
elevated
privileges
are
required.
User
interaction
is required
when the
victim
manually

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malicious file, or an automated media workflow invokes MP4Box on attacker-controlled input.

The prepared CVSS vector in the local BDU data is:

...

```
AV:L/AC:L/  
PR:N/UI:R/  
S:U/C:H/I:H  
/A:H
```

...

Impact:
The immediate observed impact is Denial of Service due to process termination . Because the vulnerability is a heap

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memory corruption and potential arbitrary code execution are possible.

Fix / mitigation status:
The issue was fixed in GPAC commit:

...
8f404bd58
1e4552674
82f862721
69a742f65
4b97
...

Users should update to a GPAC build containing this commit or later. The affected SEI/NALU handling path should ensure

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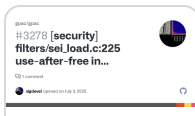
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remain
valid
before SEI
parsing
reads from
them.

References
:

- Issue:
[github.com
/gpac/gpac
/issues/32...](https://github.com/gpac/gpac/issues/32...)
- PoC:
[github.com
/sigdevel/p
ocs/blob/...](https://github.com/sigdevel/pocs/blob/...)
- Fix:
[github.com
/gpac/gpac
/commit/
8f...](https://github.com/gpac/gpac/commit/8f...)
- CVE
record:
[cve.org/CV
ERecord?
id=CVE-
2025-...](https://cve.org/CVERecord?id=CVE-2025-...)

Credit
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A. Shvedov
(@sigdevel
)



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[securi... filters/...
By sigdevel

#fuzzing
#infosec
#security
...and 11 more

Jun 19, 2026, · 🌐 · We
07:15 PM

0 boosts · 0 qu

← ↻ ☆ 📌 ...

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