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sigd...
@si...

Security
Advisory:
CVE-2025-
55639 -
NULL
Pointer
Dereferenc
e in GPAC
MP4Box
Track Kind
Handling

Processing
a crafted
MP4 file
with
MP4Box ` -
add` can
trigger a
NULL
pointer
dereferenc
e in
`gf_isom_a
dd_track_ki
nd()`,
causing a
Denial of
Service.

Summary:
The
`gf_isom_a
dd_track_ki

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function in
`isomedia/i
som_write.
c` does not
sufficiently
validate the
`kind`
string
before
passing it
to
`strdup()`.
When
MP4Box
imports a
specially
crafted
MP4 file
containing
corrupted
MPEG-2 TS
PMT
descriptors
and empty
track
metadata,
a NULL
`kind`
pointer can
reach
`gf_isom_a
dd_track_ki
nd()`.

AddressSa
nitizer
reports a
segmentati
on fault

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address
`0x0` in
`strlen()`
during
`strdup()`,
reached
from
`gf_isom_a
dd_track_ki
nd()` at
`isomedia/i
som_write.
c:3153`.

CWE:
CWE-476 -
NULL
Pointer
Dereferenc
e

Affected
Componen
t:
...

isomedia/i
som_write.
c:3153
Function:
gf_isom_ad
d_track_kin
d()
..

Affected
Product:
MP4Box
(GPAC
Multimedia

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Source
Project)

Affected
Version:
MP4Box
version 2.4
is affected
according
to the
prepared
CVE/MITR
E data. The
issue was
reproduced
on a GPAC
build at
commit:
...

78c2c9be2
9a41b38ec
a2c53d280
442088a71
dab9
...

Builds
before the
fix commit
`027ce139
dda498ee9
5df36db9f
9f6f3cadce
8ec9`
should be
considered
affected if
they
contain the
vulnerable

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handling
path.

Attack
Conditions:
An attacker
supplies a
crafted
MP4 file
with
corrupted
PMT
descriptors
in an
MPEG-2 TS
stream and
malformed
or empty
track
metadata.
The issue
can be
reproduced
locally
with:

...

```
./MP4Box -  
add  
23_poc.mp  
4 -new  
/dev/null  
...
```

No
elevated
privileges
are
required.

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is required when the victim manually processes the malicious file, or an automated media workflow invokes MP4Box on attacker-controlled input.

Impact:
The immediate observed impact is Denial of Service due to process termination . No evidence of arbitrary code execution was observed.

Fix / mitigation status:
The issue was fixed

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```\n

027ce139d  
da498ee95  
df36db9f9f  
6f3cadce8  
ec9

```\n

Users
should
update to a
GPAC build
containing
this
commit or
later. The
affected
track
metadata
path
should
validate
'kind'
before
duplicating
it and fail
cleanly
when
malformed
input omits
the
expected
metadata.

References
:

- Issue:
github.com

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2...

- PoC:

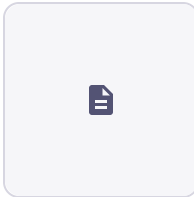
[github.com/sigdevel/pocs/blob/...](#)

- Fix:

[github.com/gpac/gpac/commit/02...](#)

- CVE record:
[cve.org/CVERecord?id=CVE-2025-...](#)

Credit
Alexander
A. Shvedov
([@sigdevel](#))



[#fuzzing](#)

[#infosec](#)

[#security](#)

...and 11 more

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2026, · · We
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