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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

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nd)`  
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

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```
a read from
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

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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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```

```
027ce139d
da498ee95
df36db9f9f
6f3cadce8
ec9
```

```

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.

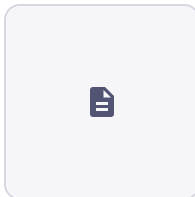
References  
:

- Issue:  
[github.com](https://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

Jun  
18,  
2026, · · We  
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