

[Skip to main content](#) 1

[Skip to main navigation](#) 2



sigd...
@si...

Security
Advisory:
CVE-2025-
60473 -
NULL
Pointer
Dereferenc
e in GPAC
MP4Box
Filter
Parent
Chain

Processing
a crafted
media file
with
MP4Box ` -
info` can
trigger a
NULL
pointer
dereferenc
e in
`gf_filter_in
_parent_ch
ain()`,
causing a
Denial of
Service.

Summary:

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_parent_chain() function in filter_core/filter_pid.c does not sufficiently validate a parent filter pointer before dereferencing it. When MP4Box processes a specially crafted media file with malformed MPEG-2 TS data and a corrupted PID/filter chain, the vulnerable path can attempt to read from address `0x00000000000008`.

CWE:
CWE-476 -
NULL
Pointer
Dereference

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Affected
Component:
...

filter_core/
filter_pid.c:2
145
Function:
gf_filter_in_
parent_chai
n()
...

Affected
Product:
MP4Box
(GPAC
Multimedia
Open
Source
Project)

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

GPAC
version:
2.5-DEV-
rev1570-
g6208015d
f-master
Commit:
6208015df
f3a6735a2
6e413c484

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3ea2

...

The MITRE response states that GPAC Project/MP 4Box before `26.02.0` is affected. Builds before the fix commit `b8d80b44718de10b101e1d7fc17c84d69feb092e` should be considered affected if they contain the vulnerable filter parent-chain validation path.

Attack Conditions:
An attacker supplies a crafted media file with

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packet
data and a
corrupted
PID/filter
chain. The
issue can
be
reproduced
locally
with:
...

```
./MP4Box -  
info  
36_gf_filter  
_in_parent_  
chain_filter  
_core_filter  
_pid_c_214  
5  
...
```

No
elevated
privileges
are
required.
User
interaction
is required
when the
victim
manually
processes
the
malicious
file, or an
automated
media
workflow

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attacker-controlled input.

The prepared CVSS vector:
...

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

Impact:
The immediate observed impact is Denial of Service due to process termination . The local MITRE/BD U data also notes potential arbitrary code execution, although the available ASAN evidence shows a NULL

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dereferenc
e crash.

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

...

b8d80b447
18de10b10
1e1d7fc17
c84d69feb
092e

...

Users
should
update to a
GPAC build
containing
this
commit or
later. The
affected
filter graph
code
should
validate
parent filter
pointers
before
dereferenci
ng them
during PID
initializatio
n.

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References

:

- Issue:

github.com/gpac/gpac/issues/32...

- PoC:

github.com/sigdevel/pocs/blob/...

- Fix:

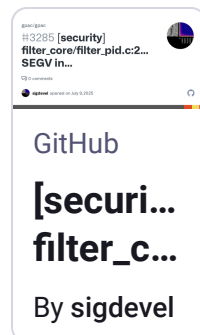
github.com/gpac/gpac/commit/b8...

- CVE

record:
cve.org/CVERecord?id=CVE-2025-...

Credit

Alexander
A. Shvedov
(@sigdevel)




#fuzzing

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...and 11 more

Jun
20,
2026, ·  · We
04:09
AM

Last edited
**Jun 20, 04:10
AM**

0 boosts · 0 qu

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