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sigd...  
@si...

Security  
Advisory:  
CVE-2025-  
60465 -  
Use-After-  
Free in  
GPAC  
MP4Box  
PID  
Instance  
Swap

Processing  
a crafted  
media file  
with  
MP4Box ` -  
info` can  
trigger a  
heap use-  
after-free in  
`gf\_filter\_pi  
d\_inst\_swa  
p()`,  
causing a  
crash and  
potential  
code  
execution.

Summary:  
The

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p() function in `filter_core/filter_pid.c` does not reset `ctx->pid_inst` to NULL after freeing the PID instance. Subsequent PID configuration and reconfiguration steps can reuse this dangling pointer, leading to access to freed heap memory.

CWE:  
CWE-416 -  
Use After  
Free

Affected  
Component:  
...

`filter_core/filter_pid.c:633`

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d\_inst\_swa  
p()  
...

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  
c714666eb  
3ea2  
...

The MITRE  
response  
states that  
GPAC  
Project/MP  
4Box

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affected.  
Builds  
before the  
fix commit  
`55b351bd  
078c95059  
2544ab4c7  
08a613c17  
25b9b`  
should be  
considered  
affected if  
they  
contain the  
vulnerable  
PID  
instance  
swap path.

Attack  
Conditions:  
An attacker  
supplies a  
crafted  
media or  
MPEG-2 TS  
input that  
is  
processed  
by MP4Box  
through the  
info/import  
path and  
triggers  
filter PID  
reconfigura  
tion. The  
issue can  
be

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with:

```

```
./MP4Box -  
info  
34_gf_filter  
_pid_inst_s  
wap_filter_  
core_filter_  
pid_c_633  
```
```

No elevated privileges are required. User interaction is required when the victim manually processes the malicious file, or an automated media workflow invokes MP4Box on attacker-controlled input.

The prepared CVSS vector in

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

Impact:  
The immediate observed impact is Denial of Service due to process termination . Because the vulnerability is a heap use-after-free, memory corruption and potential arbitrary code execution are possible.

Fix / mitigation status:  
The issue was fixed in GPAC

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```
55b351bd0
78c950592
544ab4c70
8a613c172
5b9b
...`
```

Users should update to a GPAC build containing this commit or later. The affected PID instance swap path should clear `ctx->pid\_inst` after freeing it and avoid later use of stale PID object pointers.

References  
:

- Issue:  
[github.com/gpac/gpac/issues/32...](https://github.com/gpac/gpac/issues/32...)  
- PoC:  
[github.com](https://github.com)

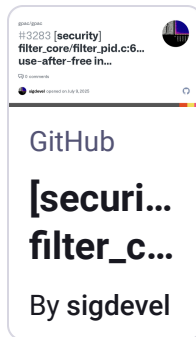
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- Fix:  
[github.com  
/gpac/gpa  
c/commit/  
55...](https://github.com/gpac/gpac/commit/55...)

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

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



[#fuzzing](#)

[#infosec](#)

[#security](#)

...and 11 more

Jun  
19,  
2026, · 🌐 · We  
07:46  
PM

0 boosts · 0 qu



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