

← P... 🔒



sigd...
@si...

Security
Advisory:
CVE-2025-
60485 -
NULL
Pointer
Dereferenc
e in
GPAC/MP4
Box

Processing
a crafted
MP4 file
with
corrupted
`esds`
boxes and
incomplete
box
structures
triggers a
NULL
pointer
dereferenc
e in
`gf_isom_a
pple_set_ta
g_ex`,
causing
MP4Box to
crash.

Summary:

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`gf_isom_a
pple_set_ta
g_ex`
function in
`isomedia/i
som_write.
c` is called
during
muxer tag
setup to
write Apple
metadata
tags into
the output
file. When
the input
MP4
contains
an invalid
`esds`
descriptor
(tag 3,
truncated
size) and
an
incomplete
box
structure,
the
function
receives an
unvalidated
NULL
pointer and
dereferenc
es it (READ
at address
0x0)
without a

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check,
terminating
the
process
with
SIGSEGV.

CWE:
CWE-476 -
NULL
Pointer
Dereferenc
e

Affected
Componen
t:
...

isomedia/i
som_write.
c:6309
Function:
gf_isom_ap
ple_set_tag
_ex()

filters/mux
_isom.c:84
1
Function:
mp4_mux_
set_tags()
...

Affected
Product:
MP4Box
(GPAC
Multimedia

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Source
Project)

Affected
Version:
2.5-DEV-
rev1687-
ge44a4e2b
0-master;
commit
`e44a4e2b
0d1935666
19ada7159
9e7025569
9da94`.

Any
codebase
equivalent
to this
commit
that has
not applied
the fix
commit is
affected.

Attack
Conditions:
An attacker
supplies a
crafted
MP4 file
containing
a corrupted
`esds` box
(invalid
descriptor
sizes) and
incomplete

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Local access is required; the victim must invoke `MP4Box -add <crafted\_file>` or any equivalent MP4Box operation that triggers the muxer PID setup and tag-writing path.

Impact:
The NULL pointer dereference (READ at address 0x000000000000) causes an immediate process crash, resulting in Denial of Service. No evidence of arbitrary code execution

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the faulting access is a NULL read that is not exploitable for control-flow hijacking.

Fix / mitigation status:
The fix adds a NULL check for the tag pointer before dereferencing it in ``gf_isom_apple_set_tag_ex``. Users should upgrade to the release containing commit ``4860a1a6f128ccc9ae37b4b738d22029f9672457`` or apply that patch directly.

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- Issue:
[github.com/gpac/gpac/issues/33...](#)

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

- Fix:
[github.com/gpac/gpac/commit/48...](#)

Credit
[@sigdevel](#)



- #fuzzing
- #infosec
- #security
- ...and 9 more

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Last edited May 30, 08:20 AM

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