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sigd...

@si...

Security
Advisory:
CVE-2025-
60483 -
NULL
Pointer
Dereferenc
e in
GPAC/MP4
Box

Processing
a crafted
AC-4
stream
triggers a
NULL
pointer
dereferenc
e in
`gf_ac4_pr
es_b_4_bac
k_channels
_present`
when
accessing
presentatio
n data with
an invalid
substream
group
index,
causing
MP4B...

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Summary:

The
`gf_ac4_pr
es_b_4_bac
k_channels
_present`
function in
`media_too
ls/av_parse
rs.c`
accesses
`pres-
>substrea
m_groups`
using an
index
derived
from the
stream.
When a
crafted AC-
4 file
specifies
an invalid
group
index (e.g.,
group 4
that does
not exist
for
presentatio
n 0), the
parser
dereferenc
es a NULL
or near-
NULL
pointer at
address

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byte struct
offset)
without
first
validating
the pointer
or the
group
index
bounds.
The
process
terminates
with
SIGSEGV.

CWE:
CWE-476 -
NULL
Pointer
Dereferenc
e

Affected
Componen
t

...

media_tool
s/av_parse
rs.c:15703
Function:
gf_ac4_pre
s_b_4_back
channels
present()
...

Affected

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(GPAC
Multimedia
Open
Source
Project)

Affected
Version:
2.5-DEV-
rev1617-
g856674b2
2-master;
commit
`856674b2
26d6cbe28
a941ad223
be38194cb
f7d37`. Any
codebase
equivalent
to this
commit
that has
not applied
the fix
commit is
affected.

Attack
Conditions:
An attacker
supplies a
specially
crafted AC-
4 stream
file
containing
an invalid
substream

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Local access is required; the victim must invoke ``MP4Box -dash 100 <crafted_file>`` or any equivalent DASH segmentation command that triggers the AC-4 demuxer and presentation parsing path.

Impact:
The near-NULL pointer dereference (READ at address 0x0000000000048) causes an immediate process crash, resulting in Denial of

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arbitrary
code
execution
was
observed;
the faulting
access is a
near-NULL
read that is
not
exploitable
for control-
flow
hijacking.

Fix /
mitigation
status:
The fix
adds
bounds
validation
for the
substream
group
index and a
NULL
check for
the
presentatio
n pointer in
`gf_ac4_pr
es_b_4_bac
k_channels
_present`.
Users
should
upgrade to
the release

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`13eb5b76
560aaf781
3b865a2ad
433258478
e2695` or
apply that
patch
directly.

References

- Issue:
[github.com/gpac/gpac/issues/333...](#)
- PoC:
[github.com/sigdevel/pocs/blob/...](#)
- Fix:
[github.com/gpac/gpac/commit/13...](#)

Credit
[@sigdevel](#)



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

May
29,
2026 · 🌐 · We

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