

← P... 🔒



sigd...
@si...

Security
Advisory:
CVE-2025-
55647 -
Integer
Overflow in
GPAC
MP4Box
PSSH
Handling

Processing
a crafted
MP4 file
with
malformed
Protection
System
Specific
Header
(PSSH)
data can
trigger an
integer
overflow
and
uncontrolle
d
allocation
in
`mp4_mux_
cenc_insert
_pssh()`

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Service through memory exhaustion.

Summary:
The ``mp4_mux_cenc_insert_pssh()`` function in ``filters/mux_isom.c`` does not sufficiently validate PSSH sizes before allocating memory. A crafted MP4 file can set PSSH-related fields such as ``kid_count`` or ``dataSize`` to very large values. This can overflow the buffer size calculation and cause

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very large
allocation
during
DASH/mux
processing
.

AddressSanitizer
reports an
out-of-
memory
condition
at
`filters/mux
_isom.c:43
26`, where
`realloc()`
attempts to
allocate
`0xe40000
100` bytes.

CWE:
CWE-190 -
Integer
Overflow or
Wraparound

Affected
Component:
...

filters/mux
_isom.c:43
26
Function:
mp4_mux_

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_pssh()
'''

Affected
Product:
MP4Box
(GPAC
Multimedia
Open
Source
Project)

Affected
Version:
MP4Box
versions
2.4 and
earlier are
affected
according
to the
prepared
CVE/MITR
E data. The
issue was
reproduced
on a GPAC
build at
commit:
'''

e95f3064d
846e46062
76fff111e0
f97df1576
a04
'''

Builds
before the
fix commit

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7ba06618b
ff9d58714
1792`
should be
considered
affected if
they
contain the
vulnerable
PSSH
allocation
path.

Attack
Conditions:
An attacker
supplies a
crafted
MP4 file
containing
malformed
PSSH/CEN
C
metadata.
The issue
can be
reproduced
locally
with:
...

./MP4Box -
dash
10000
./15_poc.m
p4
...

No
elevated
privileges

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User interaction is required when the victim manually processes the malicious MP4 file, or an automated media workflow invokes MP4Box on attacker-controlled input.

Impact:
The immediate observed impact is Denial of Service due to memory exhaustion and process termination . Because the root cause is an integer overflow in allocation-size

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corruption
and
potential
arbitrary
code
execution
cannot be
ruled out.

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

2a1f63853
4cddf511a
7ba06618b
ff9d58714
1792
...

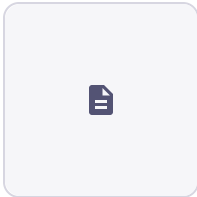
References

:
- Issue:
[github.com
/gpac/gpa
c/issues/3
2...](https://github.com/gpac/gpac/issues/32)
- PoC:
[github.com
/sigdevel/p
ocs/blob/...](https://github.com/sigdevel/pocs/blob/...)
- Fix:
[github.com
/gpac/gpa
c/commit/](https://github.com/gpac/gpac/commit/)

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

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



- #fuzzing
- #infosec
- #security

...and 11 more

Jun 12, 2026, · · We 11:02 AM

Last edited
Jun 16, 06:16 PM

1 boost · 0 quotes



EN

@sigdevel
Hello

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add
direc
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refer
ence
s to
the
CVE
too.
Right
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Mast
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toot.
Plea
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to
the
"Issu
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"PoC
" and
"Fix"
you
have
shar
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this
too.

Than
ks!

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