
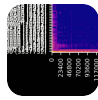


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sigd...  
@si...

## Security Advisory: CVE-2025-52292 - Stack-based Buffer Overflow in GPAC/MP4 Box

Processing a crafted MP4 file with ``MP4Box`` can trigger a stack-based buffer overflow in ``filein_process()`` in ``filters/in_file.c``, causing a crash and potential memory corruption.

Summary:

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ess()`  
function  
formats a  
status  
string into  
a fixed-size  
stack  
buffer  
using an  
unsafe  
`sprintf()`  
call. When  
the source  
path or  
basename  
derived  
from `ctx-  
>src` is  
long or  
specially  
crafted, the  
generated  
status  
string can  
exceed the  
1024-byte  
`szStatus`  
stack  
buffer.  
AddressSa  
nitizer  
reports a  
`stack-  
buffer-  
overflow`  
at  
`filters/in\_fi  
le.c:700`,  
with a

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size 1811`  
overflowing  
the  
`szStatus`  
object  
allocated in  
the  
`filein\_proc  
ess()`  
stack  
frame. The  
crash is  
reachable  
while  
MP4Box  
processes  
a crafted  
MP4 file  
through  
DASH/file-  
list  
handling.

CWE:  
CWE-121 -  
Stack-  
based  
Buffer  
Overflow

Affected  
Component:  
`...`

filters/in\_fil  
e.c:700  
Function:  
filein\_proce  
ss()

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Affected  
Product:  
MP4Box  
(GPAC  
Multimedia  
Open  
Source  
Project)

Affected  
Version:  
2.5-DEV-  
rev1174-  
g3017379f  
1-master

Attack  
Conditions:  
An attacker  
supplies a  
crafted  
MP4 file or  
causes  
MP4Box to  
process a  
crafted  
input  
path/name  
that  
expands  
into an  
oversized  
status  
string. The  
issue can  
be  
reproduced  
locally  
with:

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```
dash 1000  
/dev/null  
1_poc.mp4  
...`
```

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

Impact:  
The immediate observed impact is Denial of Service due to process termination . Because

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y is a stack-based buffer overflow with an attacker-influenced write, memory corruption and potential arbitrary code execution cannot be ruled out.

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

```
bc2fd5bb5
c31ae1486
24767c4a7
a17f02c42
951b
...
```

Users should update to a GPAC build containing this

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vulnerable status-string formatting path should use bounded formatting with the destination buffer size and should ensure that formatted status messages are truncated or rejected safely.

References  
:

- Issue:  
[github.com/gpac/gpac/issues/31](https://github.com/gpac/gpac/issues/31)...

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

- Fix:  
[github.com/gpac/gpac/commit/bc...](https://github.com/gpac/gpac/commit/bc...)

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