huntr

Use After Free in gpac/gpac



Reported on May 15th 2022

Description

Use After Free in gpac

Proof of Concept

MP4Box -bt POC1

POC1 is here

ASAN

0

0x604000003fd0 is located 0 bytes inside of 48-byte region [0x604000003fd0, freed by thread T0 here:

- #0 0x4a49fd in free (/home/wjh/gpac/bin/gcc/MP4Box+0x4a4051)
- #1 0x7f0c5374a1cf in gf_node_unregister /home/wjh/gpac/ Chat with us
- #2 0x7f0c5374e7dc in gf_node_try_destroy /home/wjh/gpac/src/scenegrapn/

#3 0 300 E304074 7 C 7 1 1/F / 3F/ / / /

```
#3 VX/TUC53T1Ud1c in gt sm au del /home/wjh/gpac/src/scene manager/scer
   #4 0x7f0c53f0dcd8 in gf_sm_reset_stream /home/wjh/gpac/src/scene_manage
   #5 0x7f0c53f0dcd8 in gf sm delete stream /home/wjh/gpac/src/scene manas
   #6 0x7f0c53f0dcd8 in gf sm del /home/wjh/gpac/src/scene manager/scene m
previously allocated by thread T0 here:
   #0 0x4a4c7d in malloc (/home/wjh/gpac/bin/gcc/MP4Box+0x4a4c7d)
   #1 0x7f0c5377e2db in Group Create /home/wjh/gpac/src/scenegraph/mpeg4 r
   #2 0x7f0c5377e2db in gf_sg_mpeg4_node_new /home/wjh/gpac/src/scenegraph
SUMMARY: AddressSanitizer: heap-use-after-free /home/wjh/gpac/src/scenegrar
Shadow bytes around the buggy address:
 0x0c087fff87a0: fa fa fd fd fd fd fd fa fa fd fd fd fd fd
 0x0c087fff87b0: fa fa fd fd fd fd fd fa fa fd fd fd fd
 0x0c087fff87c0: fa fa fd fd fd fd fd fa fa fd fd fd fd
 0x0c087fff87d0: fa fa fd fd fd fd fd fa fa fa fd fd fd fd
 0x0c087fff87e0: fa fa fd fd fd fd fd fa fa fd fd fd fd fd
=>0x0c087fff87f0: fa fa 00 00 00 02 fa fa fa[fd]fd fd fd fd
 0x0c087fff8800: fa fa fd fd fd fd fd fa fa fd fd fd fd fa
 0x0c087fff8810: fa fa fd fd fd fd fd fa fa fd fd fd fd fa
 0x0c087fff8820: fa fa fd fd fd fd fa fa fa fd fd fd fd fa
 0x0c087fff8830: fa fa fd fd fd fd fa fa fa fd fd fd fd fa
 0x0c087fff8840: fa fa fd fd fd fd fa fa fa fd fd fd fd fa
Shadow byte legend (one shadow byte represents 8 application bytes):
 Addressable:
                        00
 Partially addressable: 01 02 03 04 05 06 07
 Heap left redzone:
                         fa
 Freed heap region:
                          fd
 Stack left redzone:
                         f1
 Stack mid redzone:
                         f2
 Stack right redzone:
                         f3
 Stack after return:
                         f5
 Stack use after scope:
                         f8
 Global redzone:
                         f9
 Global init order:
                         f6
 Poisoned by user:
                         f7
 Container overflow:
                         fc
 Array cookie:
                          ac
                                                              Chat with us
 Intra object redzone:
                          bb
 ASan internal:
                          fe
```

Lett alloca redzone: ca Right alloca redzone: cb Shadow gap: cc

==**74043**==ABORTING



Impact

can cause a program to crash, use unexpected values, or execute code.

CVE

CVE-2022-1795 (Published)

Vulnerability Type

CWE-416: Use After Free

Severity

High (7.3)

Registry

Other

Affected Version

2.1-DE\

Visibility

Public

Status

Fixed

Found by



wjhwjhn
@wjhwjhn
unranked •

This report was seen 635 times.

Chat with us

| We have contacted a member of the gpac team and are waiting to hear back 6 months ago |
|--|
| A gpac/gpac maintainer validated this vulnerability 6 months ago |
| wjhwjhn has been awarded the disclosure bounty ✓ |
| The fix bounty is now up for grabs |
| The researcher's credibility has increased: +7 |
| A gpac/gpac maintainer marked this as fixed in v2.1.0-DEV with commit c535ba 6 months ago |
| The fix bounty has been dropped 🗶 |
| This vulnerability will not receive a CVE 🗶 |
| wjhwjhn 6 months ago Researcher |
| Hi @admin, may i have CVE assigned to this case? Thanks! |
| Jamie Slome 6 months ago Admir |
| Sorted 👍 |
| Sign in to join this conversation |
| |
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| |

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