## huntr

# heap-buffer-overflow in mobi\_get\_attribute\_value in bfabiszewski/libmobi

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✓ Valid ) Reported on Apr 30th 2022

# Description

heap-buffer-overflow /home/ubuntu/libmobi-public/src/parse\_rawml.c:357 in mobi\_get\_attribute\_value

### **Environment**

Distributor ID: Ubuntu

Description: Ubuntu 20.04 LTS

Release: 20.04 focal Codename:

mobitool build: Apr 29 2022 20:52:30 (gcc 9.3.0)

libmobi: 0.10

### Build

export CC=gcc CXX=g++ CFLAGS="-fsanitize=address -static-libasan" CXXFLAGS= autogen.sh && ./configure && make





## POC

```
./mobitool -e -o ./tmp/ ./poc4
```

poc4

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==150005==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x61b000 READ of size 1 at 0x61b00000141f thread T0 #0 0x55dae390a640 in mobi get attribute value /home/ubuntu/libmobi-publ #1 0x55dae391760d in mobi get filepos array /home/ubuntu/libmobi-public #2 0x55dae391760d in mobi\_reconstruct\_links\_kf7 /home/ubuntu/libmobi-pu #3 0x55dae391b0d0 in mobi\_reconstruct\_links /home/ubuntu/libmobi-public #4 0x55dae391b0d0 in mobi parse rawml opt /home/ubuntu/libmobi-public/s #5 0x55dae391b0d0 in mobi parse rawml /home/ubuntu/libmobi-public/src/r #6 0x55dae37bee00 in loadfilename /home/ubuntu/libmobi-public/tools/mol #7 0x55dae37bee00 in main /home/ubuntu/libmobi-public/tools/mobitool.c: #8 0x7feb6690f0b2 in \_\_libc\_start\_main (/lib/x86\_64-linux-gnu/libc.so.t #9 0x55dae37ca6fd in start (/home/ubuntu/libmobi-public/tools/mobitool 0x61b00000141f is located 0 bytes to the right of 1439-byte region [0x61b00 allocated by thread TO here: #0 0x55dae38b5748 in malloc (/home/ubuntu/libmobi-public/tools/mobitool #1 0x55dae390ffc0 in mobi reconstruct parts /home/ubuntu/libmobi-public SUMMARY: AddressSanitizer: heap-buffer-overflow /home/ubuntu/libmobi-public Shadow bytes around the buggy address: =>0x0c367fff8280: 00 00 00[07]fa fa 0x0c367fff82a0: fa Shadow byte legend (one shadow byte represents 8 application bytes): Addressable: 00

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Heap left redzone: fa Freed heap region: fd

Partially addressable: 01 02 03 04 05 06 07

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 Intra object redzone: bb ASan internal: fe Left alloca redzone: ca Right alloca redzone: cb Shadow gap: CC==150005==ABORTING



## **Impact**

The bug causes the program reads data past the end of the intented buffer. Typically, this can allow attackers to read sensitive information from other memory locations or cause a crash.

## Occurrences

**c** parse\_rawml.c L357

#### $\mathsf{CVE}$

CVE-2022-1907 (Published)

#### Vulnerability Type

CWE-126: Buffer Over-read

#### Severity

Low (3.6)

#### Registry

Othe

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Affected Version

Visibility Public

Status

Fixed

#### Found by



cnitIrt
@cnitIrt
master •

#### Fixed by



#### Bartek Fabiszewski

@bfabiszewski
unranked

This report was seen 521 times.

We are processing your report and will contact the **bfabiszewski/libmobi** team within 24 hours. 7 months ago

cnitIrt modified the report 7 months ago

**cnitlrt** modified the report 7 months ago

We have contacted a member of the **bfabiszewski/libmobi** team and are waiting to hear back 7 months ago

**Bartek Fabiszewski** modified the CWE from Heap-based Buffer Overflow to Buffer Over-read 7 months ago

Bartek Fabiszewski modified the Severity from High (7.9) to Low (3.6) 7 months ago

The researcher has received a minor penalty to their credibility for miscalculating the severity: -1

The researcher has received a minor penalty to their credibility for misclassic vulnerability type: -1

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Bartek Fabiszewski validated this vulnerability 7 months ago cnitIrt has been awarded the disclosure bounty ✓ The fix bounty is now up for grabs The researcher's credibility has increased: +5 Bartek Fabiszewski marked this as fixed in 0.11 with commit 1e0378 7 months ago Bartek Fabiszewski has been awarded the fix bounty 🗸 This vulnerability will not receive a CVE x parse\_rawml.c#L357 has been validated ✓ Bartek 7 months ago Maintainer Thanks for finding this bug! cnitlrt 6 months ago Researcher @Bartek @admin Can i request the cve for this report and another report? Jamie Slome 6 months ago Admin @Bartek - if you give me the go-ahead, I can assign and publish CVEs for both reports 👍 Bartek 6 months ago Maintainer Please, go ahead with CVEs. Thanks! cnitlrt 6 months ago Researcher Thanks! Chat with us

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