Bug 16258 - [oss-fuzz] Null-dereference READ in dissect_btatt

Status: RESOLVED FIXED

Alias: None

Product: Wireshark

Component: Dissection engine (libwireshark) (show other bugs)

Version: Git

Hardware: x86 macOS 10.14

Importance: Low Major (vote)

Target Milestone: -

Assignee: Bugzilla Administrator

URL: https://bugs.chromium.org/p/oss-fuzz/.

Depends on: **Blocks:**

Reported: 2019-12-06 17:02 UTC by Gerald Combs

See Also: http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-7045

. Modified: 2020-04-09 21:28 UTC (<u>History</u>)

CC List: 2 users (show)

Attachments

FUZZSHARK_TARGET=ip ./run/fuzzshark clusterfuzz-testcase-fuzzshark_ip-5767906507358208 (21.87 KB, application/octet-stream) Details

Add an attachment (proposed patch, testcase, etc.)

You need to $\underline{\log\,\mathrm{in}}$ before you can comment on or make changes to this bug.

```
Gerald Combs 2019-12-06 17:02:22 UTC
                                                                                                                                                                                                                                                                                                     Description
                                                                T=ip ./run/fuzzshark clusterfuzz-testcase-fuzzshark_ip-
     Build Information:
TShark (Wireshark) 3.3.0 (<u>v3.3.0rc0-75-g2eef68122ce2</u>)
     Copyright 1998-2019 Gerald Combs <gerald@wireshark.org> and contributors.
License GPLv2+: GNU GPL version 2 or later <a href="https://www.gnu.org/licenses/">https://www.gnu.org/licenses/</a>
     This is free software; see the source for copying conditions. There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
     Compiled (64-bit) with libpcap, without POSIX capabilities, with GLib 2.58.3, with 21ib 1.2.11, with SMI 0.5.0, with c-ares 1.15.0, with Lua 5.1.5, with GnuTLS 3.6.6 and PKCS #11 support, with Gcrypt 1.8.4, with MIT Kerberos, with MaxMind DB resolver, with nghttp2 1.36.0, with brotli, with LZ4, with Zstandard, with Snappy, with libxml2 2.9.4.
     Running on Mac OS X 10.14.6, build 18G1012 (Darwin 18.7.0), with Intel(R) Core(TM) i9-8950HK CPU @ 2.90GHz (with SSE4.2), with 32768 MB of physical memory, with locale en US.UTF-8, with libpcap version 1.8.1 -- Apple version 79.250.1, with GnuTLS 3.6.6, with Gcrypt 1.8.4, with brotli 1.0.7, with zlib 1.2.11, binary plugins supported (0 loaded).
      Built using clang 4.2.1 Compatible Apple LLVM 11.0.0 (clang-1100.0.33.12).
     OSS-Fuzz found an issue with the BT ATT dissector:
      $ FUZZSHARK TARGET=ip ./run/fuzzshark /tmp/clusterfuzz-testcase-fuzzshark ip-
     $ FUZZSHARK TARGET=ip ./run/fuzzshark /tmp/clusterfuzz-testcase-f
5767906507358208
StandaloneFuzzTargetMain: running 1 inputs
oss-fuzzshark: disabling: snort
oss-fuzzshark: requested dissector: ip
Running: /tmp/clusterfuzz-testcase-fuzzshark_ip-5767906507358208
AddressSanitizer:DEADLYSIGNAL
SST10228181A. Fequator dissector. 3.p

Running: /tmp/clusterfuzz-testcase-fuzzshark_ip-5767906507358208

AddressSanitizer:DEADLYSIGNAL

==97002==ERROR: AddressSanitizer: SEGV on unknown address 0x0000000000069 (pc
0x00010cb59f9c bp 0x7ffee576cdc0 sp 0x7ffee576c600 T0)

==97002==The signal is caused by a READ memory access.

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#10 0x10c50579b in dissect try uint new packet.c:1228

#10 0x10c5066b8 in dissect or try uint new packet.c:706

#2 0x10c5066b8 in dissect or try uint new packet.c:706

#5 0x10c506394 in call dissector work packet.c:706

#5 0x10c506394 in dissect llc packet-llc.c:436

#8 0x10c506394 in dissect llc packet-llc.c:436

#8 0x10c506394 in dissect llc packet-llc.c:436

#9 0x10d2c9fc9 in dissect llc packet-llc.c:436

#9 0x10c506395 in call dissector work packet.c:706

#9 0x10c606394 in dissect Body 3 packet-lece8023.c:79

#11 0x10ce2114 in dissect End common packet-eth.c:518

#12 0x10ce0cd7f in dissect the common packet-eth.c:841

#13 0x10c506394 in call dissector work packet.c:706

#14 0x10c506395 in call dissector work packet.c:706

#14 0x10c506396 in dissect body body packet-ppp.c.

#16 0x10c506396 in dissect body body packet-ppp.c.

#10 0x10d506396 in dissect body pody packet-ppp.c.

#10 0x10d506396 in dissect ppp raw hold packet-ppp.c:6004

#20 0x10c506394 in call dissector try uint packet.c:1399

#18 0x10d506394 in call dissector work packet.c:706

#21 0x10c506396 in dissect ppp raw hold packet-ppp.c:6004

#20 0x10c506396 in dissect ppp raw hold packet-ppp.c:6004

#20 0x10c506396 in dissect pry praw hold packet-ppp.c:6004

#20 0x10c506396 in dissect pry praw hold packet-c:1399

#25 0x10c506396 in dissect pry praw hold packet-c:1399

#26 0x10d506396 in dissect pry praw hold packet-c:1399

#27 0x10c506396 in dissect pry praw hold packet-c:1399

#28 0x10c506396 in dissect pry praw 
         ==97002==Register values:
rax = 0x0000000000000000 rbx = 0x00007ffee576ccc0 rcx = 0x000010000000000 rdx =
```

| SUMMARY: AddressSanitizer: SEGV packet-btatt.c:11282 in dissect_btatt ==97002==ABORTING

Gerrit Code Review 2019-12-06 22:32:41 UTC

Change 35339 had a related patch set uploaded by Dario Lombardo: btatt: check the opcode against the current data.

Gerrit Code Review 2019-12-10 08:50:00 UTC

Change 35339 merged by Anders Broman: btatt: check the opcode against the current data.

https://code.wireshark.org/review/35339

Gerrit Code Review 2019-12-10 09:25:30 UTC

Change 35387 had a related patch set uploaded by Dario Lombardo: btatt: check the opcode against the current data.

https://code.wireshark.org/review/35387

Gerrit Code Review 2019-12-10 09:25:43 UTC

Change 35388 had a related patch set uploaded by Dario Lombardo: btatt: check the opcode against the current data.

https://code.wireshark.org/review/35388

Gerrit Code Review 2019-12-10 10:15:23 UTC

Change 35388 merged by Dario Lombardo: btatt: check the opcode against the current data.

https://code.wireshark.org/review/35388

Gerrit Code Review 2019-12-10 10:15:30 UTC

Change 35387 merged by Dario Lombardo: btatt: check the opcode against the current data.

https://code.wireshark.org/review/35387

Comment 1

Comment 2

Comment 3

Comment 4

Comment 5

Comment 6

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