New issue

Labels

## one global-buffer-overread in Exiv2::Internal::Nikon1MakerNote::print0x0088 in nikonmn\_int.cpp #756

92wyunchao commented on Mar 24, 2019 • edited by D4N 🕶 POC: There exists one global-buffer-overread in Exiv2::Internal::Nikon1MakerNote::print0x0088 in nikonmn\_int.cpp in exiv2 0.27.99.0 which could result in information leak \$ exiv2 -pt \$poo =27589==ERROR: AddressSanitizer: global-buffer-overflow on address 0xb7699d34 at pc 0xb6efa9f3 bp 0xbfc07508 sp 0xbfc07500 READ of size 4 at 0xb7699d34 thread T0 #0 0xb6efa9f2 in Exiv2::Internal::Nikon1MakerNote::print0x0088(std::ostream&, Exiv2::Value const&, Exiv2::ExifData const\*) /home/rookie/asan/exiv2master/src/nikonmn int.cpp:374 #1 0xb6677efc in Exiv2::Exifdatum::write(std::ostream8, Exiv2::ExifData const\*) const /home/rookie/asan/exiv2-master/src/exif.cpp:227 #2 0xb68d6clc in Exiv2::Metadatum::print(Exiv2::ExifData const\*) const /home/rookie/asan/exiv2-master/src/metadatum.cpp:74 #3 0x82150ef in Action::Print::printMetadatum(Exiv2::Metadatum const8, Exiv2::Image const\*) /home/rookie/asan/exiv2-master/src/actions.cpp:745 #4 0x8206d2d in Action::Print::printMetadata(Exiv2::Image const\*) /home/rookie/asan/exiv2-master/src/actions.cpp:542 #5 0x81fabf1 in Action::Print::printList() /home/rookie/asan/exiv2-master/src/actions.cpp:531
#6 0x81a6225 in Action::Print::run(std::string const&) /home/rookie/asan/exiv2-master/src/actions.cpp:248
#7 0x80d3aa5 in main /home/rookie/asan/exiv2-master/src/exiv2.cpp:172 #8 0xb600aaf2 (/lib/i386-linux-gnu/libc.so.6+0x19af2) #9 0x80d1af4 in start (/home/rookie/asan/exiv2-master/build/bin/exiv2+0x80d1af4) 0xb7699d34 is located 44 bytes to the left of global variable 'Exiv2::Internal::nikonFlashControlMode' from '/home/rookie/asan/exiv2-master/src/nikonmn int.cpp' (0xb7699d60) of size 456

SUMMARY: AddressSanitizer: global-buffer-overflow /home/rookie/asan/exiv2-master/src/nikonmn\_int.cpp:374 Exiv2::Internal::Nikon1MakerNote::print0x0088(std::ostream&, Exiv2::Value const&, Exiv2::ExifData const\*) Shadow bytes around the buggy address: 0x36ed3350: 00 00 00 00 00 00 00 00 00 00 00 00 f9 f9 f9 =>0x36ed33a0: f9 f9 f9 f9 f9 f9[f9]f9 f9 f9 f9 f9 00 00 00 00 0x36ed33b0: 00 00 00 00 00 00 00 00 04 f9 f9 f9 f9 f9 Shadow byte legend (one shadow byte represents 8 application bytes): Addressable: 00
Partially addressable: 01 02 03 04 05 06 07 Heap left redzone: Heap right redzone: Freed heap region: Stack left redzone:

D4N added the bug label on Mar 25, 2019

Stack mid redzone: f2
Stack right redzone: f3
Stack partial redzone: f4
Stack after return: f5
Stack use after scope: f8
Global redzone: f9
Global init order: f6
Poisoned by user: f7
ASan internal: fe
=27589==80RTING

D4N commented on Mar 25, 2019

Member

I can confirm that this bug is present on master, although you'll have to explain to me how this is an information leak.

 $\[ \[ \] \]$  **D4N** added a commit that referenced this issue on Mar 25, 2019

(\*\*) [tests] Add regression test for #756

7bd929d

Jump to bottom

 $\Box$  D4N added a commit that referenced this issue on Mar 25, 2019

( [tests] Add regression test for #756 ...

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C D4N mentioned this issue on Mar 25, 2019

Fix #**756** #758

\$ Merged

D4N commented on Mar 25, 2019	Member
This issue will get fixed by #757 and #758 for 0.27-maintenance and master, respectively.	
<b>□ D4N</b> added a commit that referenced this issue on Mar 26, 2019	
Merge pull request #757 from Exiv2/fix_756_0.27	b148cf
C	
(Eests) Add regression test for #756 ⋯	417c75
Canmills pushed a commit that referenced this issue on Mar 29, 2019	
(*) [tests] Add regression test for #756	1a564a
D4N closed this as completed in #758 on Mar 29, 2019	
☐ D4N added a commit that referenced this issue on Mar 29, 2019	
Merge pull request #758 from Exiv2/fix_756 ···	476be7
Assignees No one assigned	
Labels	
bug	
Projects	
None yet	
Milestone No milestone	
Development	
Successfully merging a pull request may close this issue.	
% Fix #756 Exiv2/exiv2	
2 participants	
⊕ •	