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Heap-buffer-overflow found in client_example1.c #5

New issue

⊙ Open Rrooach opened this issue on Oct 10, 2019 · 0 comments

Rrooach commented on Oct 10, 2019

Hello, I found a potential heap-buffer-overflow in /libiec_iccp_mod/examples/iec61850_client_example1/client_example1.c, seems in some case when the packet can not be accept, the program throw cause heap-buffer-overflow

Below are steps followed to reproduce crash Download latest source code from: /fcovatti/libiec_iccp_mod/, compiled with clang and ASAN export CFLAGS="-g -fsanitize=address" LDFLAGS="-fsanitize=address" before make ASAN Output: ==7794==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x628000040ff at pc 0x00000048e8df bp 0x7ffffed8b350 sp 0x7ffffed8ab00 WRITE of size 13 at 0x6280000040ff #0 0x48e8de in read thread T0 . .. $(/root/temp/iec/libiec_iccp_mod/examples/iec61850_client_example1/client_example1+0x48e8de)$ #1 0x61d236 in read /usr/include/x86 64-linux-gnu/bits/unistd.h:44 #2 0x61d236 in Socket_read /root/libiec_icc_mod/src/hal/socket/linux/socket_linux.c:309
#3 0x681f3c in ByteStream_readOctets /root/libiec_iccp_mod/src/common/byte_stream.c:108 ${\tt \#4~0x62ccdd~in~addPayloadToBuffer~/root/libiec_iccp_mod/src/mms/iso_cotp/cotp.c:577}$ #5 0x62ccdd in parseIncomingMessage /root/libiec iccp mod/src/mms/iso cotp/cotp.c:630 #6 0x62f02f in addPayloadToBuffer /root/libiec_iccp_mod/src/mms/iso_cotp/cotp.c:590
#7 0x62f02f in parseIncomingMessage /root/libiec_iccp_mod/src/mms/iso_cotp/cotp.c:630 #8 0x62f02f in CotpConnection_parseIncomingMessage /root/libiec_iccp_mod/src/mms/iso_cotp/cotp.c:650 #9 0x5bfae5 in IsoClientConnection_associate /root/libiec_iccp_mod/src/mms/iso_client/impl/iso_client_connection.c:328 #10 0x5b1805 in MmsConnection_connect /root/libiec_iccp_mod/src/mms/iso_mms/client/mms_client_connection.c:887
#11 0x53c6ba in IedConnection_connect /root/libiec_iccp_mod/src/iedclient/impl/ied_connection.c:472
#12 0x511c51 in main /root/temp/iec/libiec_iccp_mod/examples/iec61850_client_example1/client_example1.c:49:5 #13 0x7f0fafea182f in __libc_start_main /build/glibc-LK5gML/glibc-2.23/csu/../csu/libc-start.c:291 #14 0x41a738 in _start (/root/temp/iec/libiec_iccp_mod/examples/iec61850_client_example1/client_example1+0x41a738) 0x6280000040ff is located 1 bytes to the left of 16100-byte region [0x628000004100,0x628000007fe4) /build/llvm-toolchain-5.0-DI81tt/llvm-toolchain-5.0-5.0/projects/compiler-rt/lib/asan/asan_descriptions.cc:178 "((res.trace)) != (0)" (0x0, 0x0) #0 0x4e567f in _asan::AsancheckFailed(char const*, int, char const*, unsigned long long, unsigned long long) (/root/temp/iec/libiec_iccp_mod/examples/iecfai850_client_examples/client_examples/teines67f) #1 0x501755 in _sanitizer::CheckFailed(char const*, int, char const*, unsigned long long, unsigned long long) (/root/temp/iec/libiec_iccp_mod/examples/iec61850_client_example1/client_example1+0x501755)
#2 0x427b74 in __asan::HeapAddressDescription::Print() const (/root/temp/iec/libiec_iccp_mod/examples/iec61850_client_example1+0x427b74) #3 0x42b376 in _asan::ErrorGeneric::Print() (/root/temp/iec/libiec_iccp_mod/examples/iec61850_client_example1/client_example1+0x42b376) = _asan::ReportGenericError(unsigned long, unsigned long, unsigne #5 0x48e8fc in read (/root/temp/iec/libiec_iccp_mod/examples/iec61850_client_example1/client_example1+0x48e8fc)
#6 0x61d236 in read /usr/include/x86_64-linux-gnu/bits/unistd.h:44 #7 0x61d236 in Socket_read /root/libiec_iccp_mod/src/hal/socket/linux/socket_linux.c:309
#8 0x681f3c in ByteStream_readOctets /root/libiec_iccp_mod/src/common/byte_stream.c:108 #9 0x62ccdd in addPayloadToBuffer /root/libiec_iccp_mod/src/mms/iso_cotp/cotp.c:577 #10 0x62ccdd in parseIncomingMessage /root/libiec_iccp_mod/src/mms/iso_cotp/cotp.c:630 #11 0x62f02f in addPayloadToBuffer /root/libiec_iccp_mod/src/mms/iso_cotp/cotp.c:590 #12 0x62f02f in parseIncomingMessage /root/libiec_iccp_mod/src/mms/iso_cotp/cotp.c:630 #13 0x62f02f in CotpConnection_parseIncomingMessage /root/libiec_iccp_mod/src/mms/iso_cotp/cotp.c:650
#14 0x5bfae5 in IsoClientConnection_associate /root/libiec_iccp_mod/src/mms/iso_client/impl/iso_client_connection.c:328
#15 0x5b1805 in MmsConnection_connect /root/libiec_iccp_mod/src/mms/iso_mms/client/mms_client_connection.c:887 #16 0x53c6ba in IedConnection_connect /root/libiec_iccp_mod/src/iedclient/impl/ied_connection.c:472 #17 0x511c51 in main /root/temp/iec/libiec_iccp_mod/examples/iec61850_client_example1/client_example1.c:49:5 #18 0x7f0fafea182f in __libc_start_main /build/glibc-LK5gWL/glibc-2.23/csu/../csu/libc-start.c:291 #19 0x41a738 in _start (/root/temp/iec/libiec_iccp_mod/examples/iec61850_client_example1/client_example1+0x41a738)

Assignees	
No one assigned	
Labels	
None yet	
Projects	
None yet	
Milestone	
No milestone	
Development	
No branches or pull requests	

1 participant

