New issue

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Double free via TNEFSubjectHandler #85



No milestone

(⊙ Closed) jasperla opened this issue on Jan 30, 2021 · 1 comment · Fixed by #87

jas	perla commented on Jan 30, 2021 • edited ▼	
	ille it seems there are many checks which ought to prevent various memory corruption situations it seems there's a double free that can be triggered still as of ecc9d87. With ASAN and some fted input:	
	==2678633==ERROR: AddressSanitizer: attempting double-free on 0x602000000000 in thread T0: #0 0x4991ad in free (/home/kali/ytnef/thef/libs/ytnef+0x4991ad) #1 0x7f0741856e4c in TNEFFree /home/kali/ytnef/lib/ytnef.c:379:3 #2 0x4c934b in main /home/kali/ytnef/main.c:146:5 #3 0x7f07414f9d09 in _libc_start_main csu//csu/libc-start.c:308:16 #4 0x4ff309 in _start (/home/kali/ytnef/ytnef/.libs/ytnef+0x4ff309)	
	#3.6820000000000 is located 0 bytes inside of 2-byte region [0x6020000000000] #3.68400000000000 is located 0 bytes inside of 2-byte region [0x6020000000000] #4.68400000000000000000000000000000000000	
	previously allocated by thread T0 here: #0 0x4995a2 in calloc (/home/kali/ytnef/libs/ytnef+0x4995a2) #1 0x76974184d740 in TNEFsubjectHandler /home/kali/ytnef.c:310:24 #2 0x7697418596fb in TNEFparsefile /home/kali/ytnef/lib/ytnef.c:1075:10 #3 0x4c958a in main /home/kali/ytnef/main.c:140:9 #4 0x7697414f9d09 inlibc_start_main csu//csu/libc-start.c:308:16	
	SUMMARY: AddressSanitizer: double-free (/home/kali/ytnef/ytnef/.libs/ytnef+0x4991ad) in free ==2678633==ABORTING	
Manually instrumenting the code shows that indeed the same memory is freed twice:		
	<pre>*> TNEFSubjectHandler: freeing TNEF->subect.data (1 byte(s)) at 0x559159ed65a0 ERROR: invalid alloc size 255 at ytnef.c : 309, suspected corruption (exceeded 100 bytes) >> TNEFFree: freeing memory at 0x559159ed65a0 of 1 byte(s) double free or corruption (fasttop)</pre>	
Ιh	I have attached a minimal reproducer of this crash: doublefree.zip	
Ç	ohwgiles added a commit to ohwgiles/ytnef that referenced this issue on Jan 31, 2021 Prevent potential double-free in TNEFSubjectHandler f2380a5	
Ç	Prevent potential double-free in TNEFSubjectHandler #87 Merged	
cai	nil commented on Feb 10, 2021	
	s issue appears to have been assigned CVE-2021-3403	
	Yeraze closed this as completed in #87 on Mar 5, 2021	
Ç	solution of this issue on Mar 7, 2021 [Security]double-free issue with ytnef #90 Closed	
ssign	ees	
	assigned .	
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rojec		
Ailest		

Development

Successfully merging a pull request may close this issue.

Prevent potential double-free in TNEFSubjectHandler ohwgiles/ytnef

2 participants

