

Date: 1/8/23, 10:05 PM  
Process: bluetoothd  
Bundle id: (null)  
Device: iPhone 11, iOS 13.6

Exception type: EXC\_SOFTWARE (SIGABRT)  
Exception subtype: EXC\_UNIX\_ABORT  
Exception codes: 0x00000000000010002, 0x0000000000000000  
Culprit: Unknown

Triggered by thread: 4  
Thread name: Dispatch queue: AACPSERVICE  
Call stack:

```
0  libsystem_kernel.dylib      0x0000000194a34df0 0x194a0e000 + 159216 // __pthread_kill
1  libsystem_pthread.dylib     0x0000000194954948 0x194952000 + 10568 // pthread_kill
2  libsystem_c.dylib           0x00000001948e3c24 0x19486e000 + 482340 // __abort
3  libsystem_c.dylib           0x00000001948c3d98 0x19486e000 + 351640 // a64l
4  bluetoothd                   0x000000010100697c 0x100dc0000 + 2386300 // func_1002464dc
5  bluetoothd                   0x0000000101004bd8 0x100dc0000 + 2378712 // func_1002448ec
6  bluetoothd                   0x0000000101002da8 0x100dc0000 + 2370984 // func_100242c88
7  bluetoothd                   0x0000000100f59d14 0x100dc0000 + 1678612 // func_100199bf4
8  bluetoothd                   0x000000010107de80 0x100dc0000 + 2875008 // func_1002bde5c
9  libdispatch.dylib           0x00000001948ef5ac 0x1948ec000 + 13740 // _dispatch_client_callout
10 libdispatch.dylib           0x00000001948f5a64 0x1948ec000 + 39524 // _dispatch_lane_serial_drain
11 libdispatch.dylib           0x00000001948f64cc 0x1948ec000 + 42188 // _dispatch_lane_invoke
12 libdispatch.dylib           0x00000001948ffa5c 0x1948ec000 + 80476 // _dispatch_workloop_worker_thread
13 libsystem_pthread.dylib     0x0000000194955718 0x194952000 + 14104 // _pthread_wqthread
14 libsystem_pthread.dylib     0x000000019495b9c8 0x194952000 + 39368 // start_wqthread
```

Bluetoothd crashed due to `__stack_chk_fail` triggered.

Clearly there is a stack overflow vulnerability in the function.

```
00000101006978 61 1B 00 00 21 40 20 51      ADRL     X1, STPU_101574B50, BLOCK
00000101006970 AC 8F 09 94      BL       __dispatch_once
00000101006974 ED FE FF 17      B        loc_101006528
00000101006978      ; -----
00000101006978      loc_101006978      ; CODE XREF: sub_1010064DC+1C41j
00000101006978      BL       __stack_chk_fail
00000101006978      ; End of function sub_1010064DC
00000101006978      ; -----
0000010100697C 9C FC FF FF      jpt_101006614 DCD loc_101006618 - 0x10100697C
0000010100697C      ; DATA XREF: sub_1010064DC+1281o
0000010100697C      ; jump table for switch statement
00000101006980 28 FE FF FF      DCD loc_1010067A4 - 0x10100697C ; jumtable 0000000101006614 case 1
00000101006984 44 FD FF FF      DCD loc_1010066C0 - 0x10100697C ; jumtable 0000000101006614 case 2
00000101006988 9C FD FF FF      DCD loc_101006718 - 0x10100697C ; jumtable 0000000101006614 case 3
0000010100698C F0 FD FF FF      DCD loc_10100676C - 0x10100697C ; jumtable 0000000101006614 case 4
00000101006990 6C FE FF FF      DCD loc_1010067E8 - 0x10100697C ; jumtable 0000000101006614 case 5
00000101006994 C0 FE FF FF      DCD loc_10100683C - 0x10100697C ; jumtable 0000000101006614 case 6
00000101006998
00000101006998      ; ===== S U B R O U T I N E =====
```



