

```

sub_e52:
00000000e52      push     rbp                                ; Begin of try block, DATA XREF=[sy
00000000e53      mov     rbp, rsp
00000000e56      push     r15
00000000e58      push     r14
00000000e5a      push     r12
00000000e5c      push     rbx
00000000e5d      sub     rsp, 0x80
00000000e64      mov     r14, rdi
00000000e67      cmp     qword [rdi+0x20], 0x0
00000000e6c      je     loc_e7a

00000000e6e      lea    rdi, qword [cfstring_com_apple_systempreferences] ; argument "applicationID" for
00000000e75      call   imp__stubs_CFPPreferencesAppSynchronize ; CFPPreferencesAppSynchronize

loc_e7a:
00000000e7a      xor     eax, eax                            ; CODE XREF=sub_e52+26
00000000e7c      lea    r15, qword [rbp+var_40]
00000000e80      mov     qword [r15], rax
00000000e83      mov     qword [r15+8], r15
00000000e87      movabs rcx, 0x202000000
00000000e91      mov     qword [r15+0x10], rcx
00000000e95      mov     qword [r15+0x18], rax
00000000e99      lea    rdi, qword [cfstring_AttentionPrefBundleIDs] ; End of try block started at 0xe52
00000000ea0      lea    rsi, qword [cfstring_com_apple_systempreferences] ; argument "applicationID" for
00000000ea7      call   imp__stubs_CFPPreferencesCopyAppValue ; CFPPreferencesCopyAppValue
00000000eac      mov     rbx, rax

```

Cerco dove è richiamata la sub_e52

```

-[systemPreferencesDockTile _refreshdocktile:]:
push     rbp                                ; Object
mov     rbp, rsp
push     r15
push     r14
push     r12

```

E quindi cerco dove è chiamata la _refreshdocktile

```

aDefaultCenter:
db      "defaultCenter", 0                  ; DATA XREF=0x3620
aRefreshdocktil:
db      "_refreshdocktile:", 0             ; DATA XREF=0x3468, 0x3628
aAddobserverSel:

```

Da li individuo la chiamata a

```

-[systemPreferencesDockTile setDockTile:]:

```

Dal listato assembler vedo che c'è una istanza di NSDistributedNotificationCenter e li vedo il nome della notifica com.apple.systempreferences.refreshdocktile

```

mov     rdi, qword [objc_cls_ref_NSNotificationCenter] ; argument "instance" for method _objc_msgSend, objc_cls_ref_NSNotificationCenter
mov     rsi, qword [0x3620] ; argument "selector" for method _objc_msgSend, @selector(defaultCenter)
mov     rbx, qword [_objc_msgSend_2028] ; _objc_msgSend_2028
call    rbx ; Jumps to 0xa108 (_objc_msgSend), _objc_msgSend
mov     rdi, rax ; argument "instance" for method imp___stubs__objc_retainAutoreleasedReturnValue
call    imp___stubs__objc_retainAutoreleasedReturnValue ; objc_retainAutoreleasedReturnValue
mov     r15, rax
mov     rsi, qword [0x3638] ; argument "selector" for method _objc_msgSend, @selector(removeObserver:name:object:)
lea     rcx, qword [cfstring_com_apple_systempreferences_refreshdocktile] ; @"com.apple.systempreferences.refreshdocktile"
mov     rdi, rax ; argument "instance" for method _objc_msgSend
systempreferences_refreshdocktile:

```

—

Le stesse info viste in pseudo codice

```

/* @class systemPreferencesDockTile */
-(void)setDockTile:(void *)arg2 {
    r12 = self;
    r14 = [arg2 retain];
    if (*qword_3830 != 0xffffffffffffff) {
        dispatch_once(qword_3830, ^ { /* block implemented at sub_1295 */ });
    }
    if (r14 == 0x0) goto loc_11b9;

loc_1169:
    if (*(r12 + 0x18) != 0x0) goto loc_11fd;

loc_1175:
    rax = [NSNotificationCenter defaultCenter];
    rax = [rax retain];
    r15 = rax;
    [rax addObserver:r12 selector:@selector(_refreshdocktile:) name:@"com.apple.systempreferences.refreshdocktile" object:0x0];
    goto loc_11f4;

loc_11f4:
    [r15 release];
    goto loc_11fd;

loc_11fd:
    rbx = *(r12 + 0x18);
    *(r12 + 0x18) = r14;
    r14 = [r14 retain];
    [rbx release];
    if (*(r12 + 0x18) != 0x0) {
        [r12 _refreshdocktile:0x0];
        [r14 release];
        if (*(r12 + 0x8) == 0x0) {
            *(int8_t *) (r12 + 0x10) = 0x1;
        }
    }
    else {
        rdi = *(r12 + 0x8);
        *(r12 + 0x8) = 0x0;
        [rdi release];
        [r14 release];
    }
    return;
}

```