More Data Exfiltration

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2 comment(s)

Yesterday, I posted a quick analysis of a malicious document that exfiltrates data from the compromised computer[1]. Here is another found that also exfiltrate data. The malware is delivered in an ACE archive. This file format remains common in phishing campaigns because the detection rate is lower at email gateways (many of them can't handle the file format). The archive contains a PE file called 'Payment Copy.exe' (SHA256:88a6e2fd417d145b55125338b9f53ed3e16a6b27fae9a3042e187b5aa15d27aa). The payload is unknown on VT at this time.

Here is a list of extracted paths:

```
%USERPROFILE%\AppData\Local\Google\Chrome\User Data\LOGIN DATA
%USERPROFILE%\AppData\Roaming\Mozilla\Firefox\Profiles\4lddcdcq.hh3fwg7
%USERPROFILE%\AppData\Local\TENCENT\QQBROWSER\USER DATA\DEFAULT\ENCRYPT
%USERPROFILE%\AppData\Roaming\OPERA SOFTWARE\OPERA STABLE\LOGIN DATA
%USERPROFILE%\AppData\Local\YANDEX\YANDEXBROWSER\USER DATA
%USERPROFILE%\AppData\Local\360CHROME\CHROME\USER DATA
%USERPROFILE%\AppData\Local\IRIDIUM\USER DATA
%USERPROFILE%\AppData\Local\COMODO\DRAGON\USER DATA
%USERPROFILE%\AppData\Local\MAPLESTUDIO\CHROMEPLUS\USER DATA
%USERPROFILE%\AppData\Local\CHROMIUM\USER DATA
%USERPROFILE%\AppData\Local\TORCH\USER DATA
%USERPROFILE%\AppData\Local\7STAR\7STAR\USER DATA
%USERPROFILE%\AppData\Local\AMIGO\USER DATA
%USERPROFILE%\AppData\Local\BRAVESOFTWARE\BRAVE-BROWSER\USER DATA
%USERPROFILE%\AppData\Local\CENTBROWSER\USER DATA
%USERPROFILE%\AppData\Local\CHEDOT\USER DATA
%USERPROFILE%\AppData\Local\COCCOC\BROWSER\USER DATA
%USERPROFILE%\AppData\Local\ELEMENTS BROWSER\USER DATA
%USERPROFILE%\AppData\Local\EPIC PRIVACY BROWSER\USER DATA
%USERPROFILE%\AppData\Local\KOMETA\USER DATA
%USERPROFILE%\AppData\Local\ORBITUM\USER DATA
%USERPROFILE%\AppData\Local\SPUTNIK\SPUTNIK\USER DATA
%USERPROFILE%\AppData\Local\UCOZMEDIA\URAN\USER DATA
%USERPROFILE%\AppData\Local\VIVALDI\USER DATA
%USERPROFILE%\AppData\Local\CATALINAGROUP\CITRIO\USER DATA
%USERPROFILE%\AppData\Local\LIEBAO\USER DATA
%USERPROFILE%\AppData\Local\FENRIR INC\SLEIPNIR5\SETTING\MODULES\CHROMI
%USERPROFILE%\AppData\Local\QIP SURF\USER DATA
%USERPROFILE%\AppData\Local\COOWON\COOWON\USER DATA
%USERPROFILE%\AppData\Roaming\Mozilla\SEAMONKEY\PROFILES.INI
%USERPROFILE%\AppData\Roaming\FLOCK\BROWSER\PROFILES.INI
%USERPROFILE%\AppData\Local\UCBROWSER
%USERPROFILE%\AppData\Roaming\NETGATE TECHNOLOGIES\BLACKHAWK\PROFILES.I
%USERPROFILE%\AppData\Roaming\8PECXSTUDIOS\CYBERFOX\PROFILES.INI
```

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```
%USERPROFILE%\AppData\Roaming\MOONCHILD PRODUCTIONS\PALE MOON\PROFILES.
%USERPROFILE%\AppData\Roaming\WATERFOX\PROFILES.INI
%USERPROFILE%\AppData\Local\FALKON\PROFILES\PROFILES.INI
Subsystem\Profiles\Outlook\9375CFF0413111d3B88A00104B2A6676\00000002\PO
%USERPROFILE%\AppData\Roaming\THUNDERBIRD\PROFILES.INI
%USERPROFILE%\AppData\Local\VIRTUALSTORE\PROGRAM FILES\FOXMAIL\MAIL
%USERPROFILE%\AppData\Local\VIRTUALSTORE\PROGRAM FILES (X86)\FOXMAIL\MA
%USERPROFILE%\AppData\Roaming\OPERA MAIL\OPERA MAIL\WAND.DAT
%USERPROFILE%\AppData\Roaming\POCOMAIL\ACCOUNTS.INI
%USERPROFILE%\AppData\Roaming\THE BAT!
%USERPROFILE%\AppData\Roaming\POSTBOX\PROFILES.INI
%USERPROFILE%\AppData\Roaming\CLAWS-MAIL
%USERPROFILE%\AppData\Roaming\CLAWS-MAIL\CLAWSRC
%USERPROFILE%\AppData\Local\Temp\FOLDER.LST
%USERPROFILE%\AppData\Roaming\TRILLIAN\USERS\GLOBAL\ACCOUNTS.DAT
%USERPROFILE%\AppData\Roaming\PSI\PROFILES
%USERPROFILE%\AppData\Roaming\PSI+\PROFILES
%USERPROFILE%\AppData\Roaming\IPSWITCH\WS_FTP\SITES\WS_FTP.INI
%USERPROFILE%\AppData\Roaming\COREFTP\SITES.IDX
C:\FTP NAVIGATOR\FTPLIST.TXT
%USERPROFILE%\AppData\Roaming\FLASHFXP\3QUICK.DAT
%USERPROFILE%\AppData\Roaming\SMARTFTP\CLIENT 2.0\FAVORITES\QUICK CONNE
C:\CFTP\FTPLIST.TXT
%USERPROFILE%\AppData\Roaming\FTPGETTER\SERVERS.XML
C:\Program Files (x86)\JDOWNLOADER\CONFIG\DATABASE.SCRIPT
%USERPROFILE%\AppData\Local\Temp\LOG.TMP
\REGISTRY\USER\S-1-5-21-2529703413-2662079939-3113469119-500\Software\M
\REGISTRY\USER\S-1-5-21-2529703413-2662079939-3113469119-500\Software\A
\REGISTRY\USER\S-1-5-21-2529703413-2662079939-3113469119-500\Software\A
\REGISTRY\USER\S-1-5-21-2529703413-2662079939-3113469119-500\Software\I
\REGISTRY\USER\S-1-5-21-2529703413-2662079939-3113469119-500\Software\Q
\REGISTRY\USER\S-1-5-21-2529703413-2662079939-3113469119-500\Software\R
\REGISTRY\USER\S-1-5-21-2529703413-2662079939-3113469119-500\Software\O
\REGISTRY\USER\S-1-5-21-2529703413-2662079939-3113469119-500\SOFTWARE\M
```

Who said that the browser market is restricted to IE, Firefox, Chrome, Safari & Opera?

Another tool used by the malware attracted my attention: 'plutil.exe'. It's a tool that is part of the Apple Application Support 32-bit program. This tool is completely legit and is available when you install an Apple software on your Windows system (Safari, iCloud, …). Its purpose is to process Properly List files[2] used by Apple.

```
C:\Program Files (x86)\Common Files\Apple\Apple Application Support\plu
   "%USERPROFILE%\AppData\Local\Temp\fixed_keychain.xml" \
   "%USERPROFILE%\AppData\Roaming\Apple Computer\Preferences\keychain.p
```

It could be a good idea to track access to these paths by uncommon process names (example via a Sysmon specific configuration)

[1] https://isc.sans.edu/forums/diary/Quick+Analyzis+of+another+Maldoc/25694/
[2] https://developer.apple.com/library/archive/documentation/General/Reference/InfoPlistKeyReference/Articles/AboutInformationPropertyListFiles.html

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