

Mailto (NetWalker) Ransomware Targets Enterprise Networks

By Lawrence Abrams

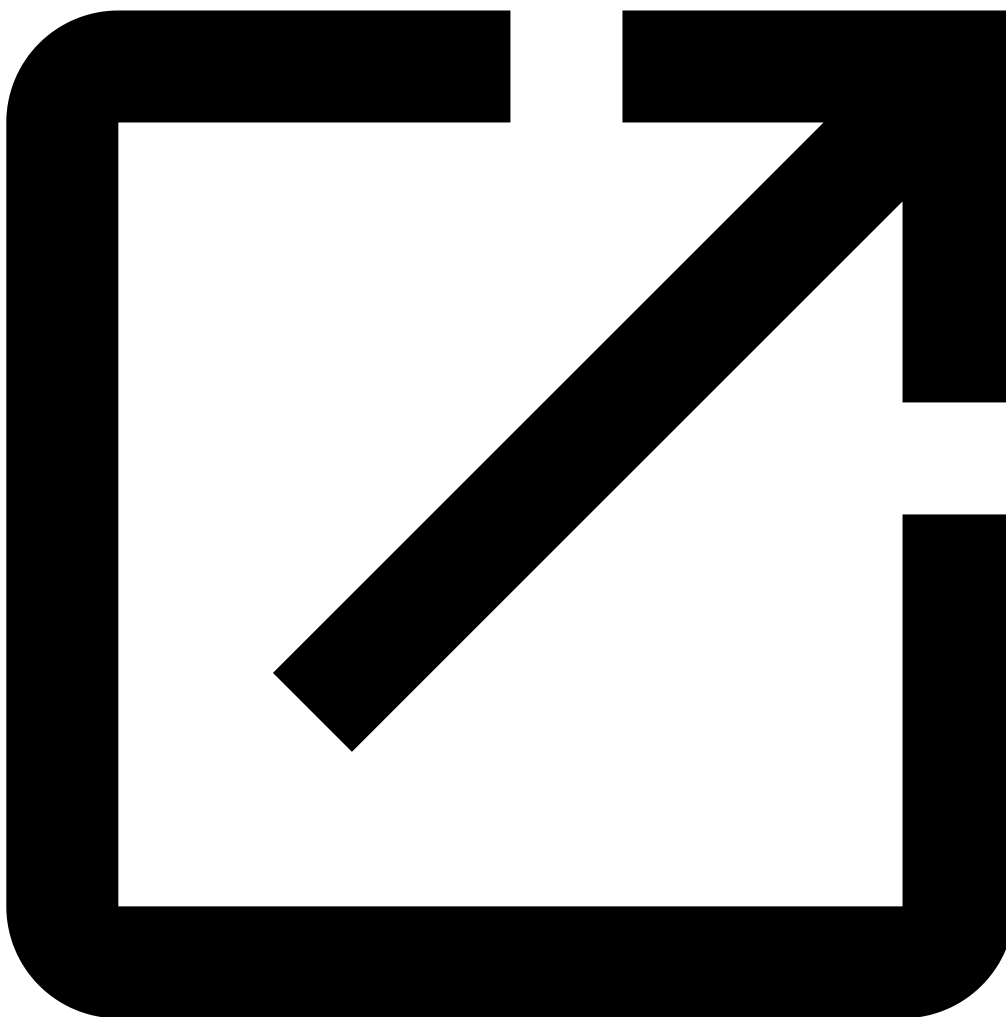
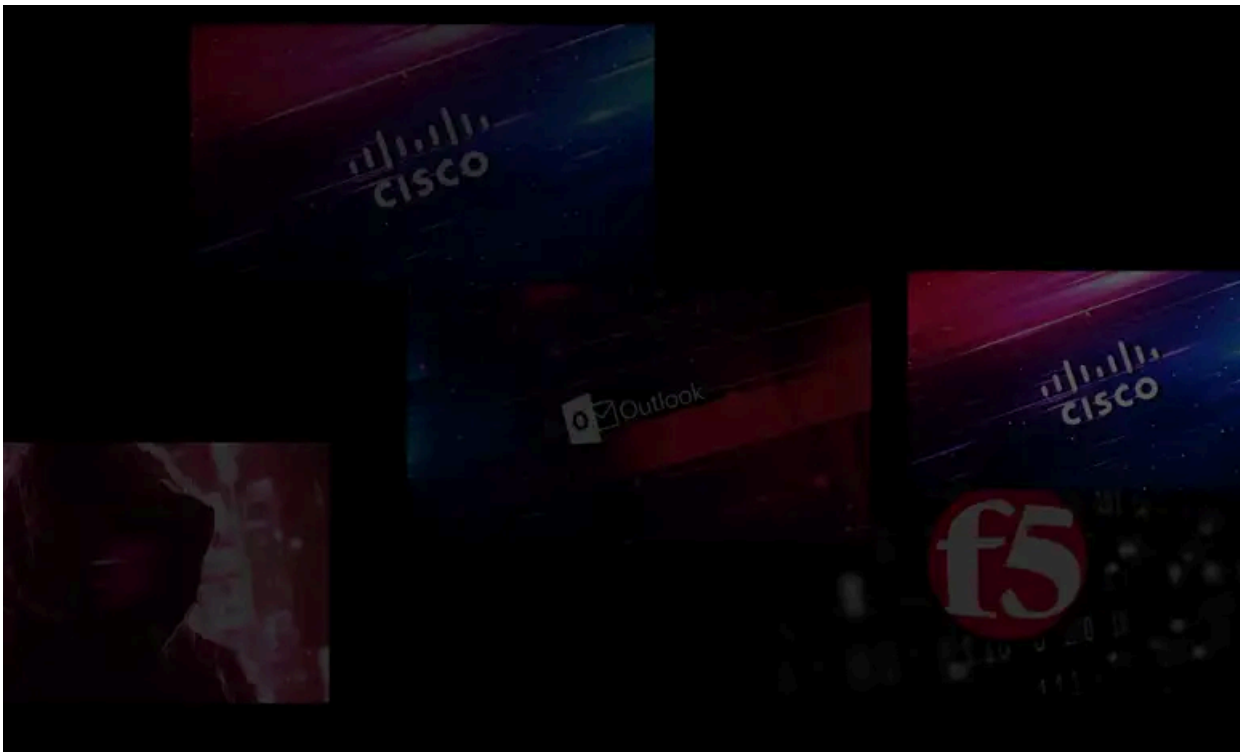
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With the high ransom prices and big payouts of enterprise-targeting ransomware, we now have another ransomware known as Mailto or Netwalker that is compromising enterprise networks and encrypting all of the Windows devices connected to it.

In August 2019 a new ransomware was spotted in ID Ransomware that was named Mailto based on the extension that was appended to encrypted files.

It was not known until today when the Australian [Toll Group disclosed](#) that their network was attacked by the Mailto ransomware, that we discovered that this ransomware is targeting the enterprise.

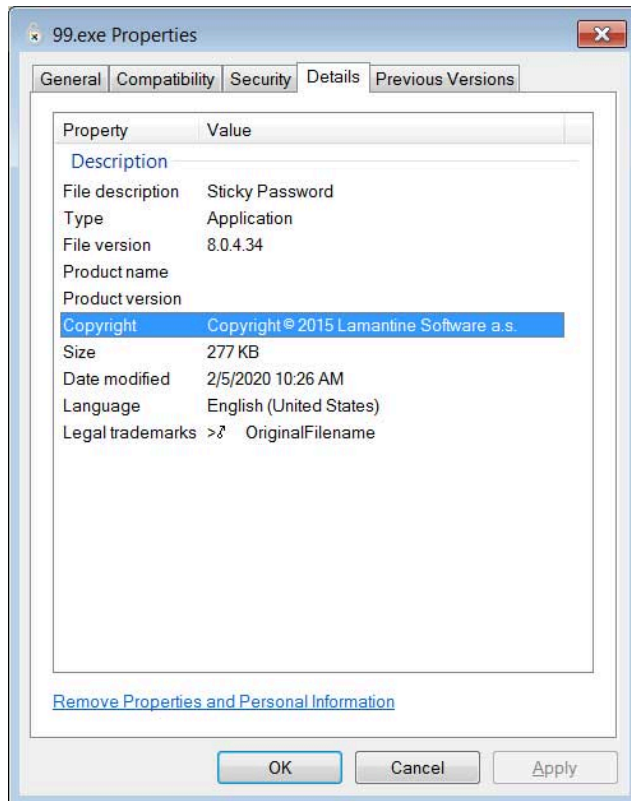


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It should be noted that the ransomware has been commonly called the Mailto Ransomware due to the appended extension, but analysis of one of its decryptors indicates that it is named Netwalker. We will discuss this later in the article.

The Mailto / Netwalker ransomware

In a recent sample of the Mailto ransomware shared with BleepingComputer by [MalwareHunterTeam](#), the executable attempts to impersonate the 'Sticky Password' software.



Impersonating Sticky Password

When executed, the ransomware uses an embedded config that includes the ransom note template, ransom note file names, length of id/extension, whitelisted files, folders, and extensions, and various other configuration options.

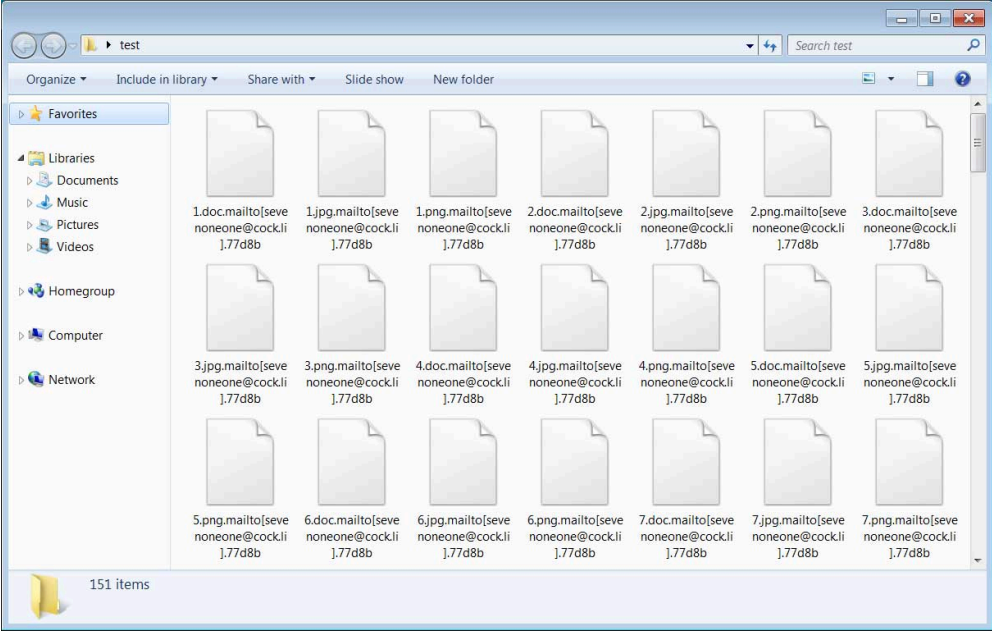
According to Head of SentinelLabs [Vitali Kremez](#) who also [analyzed](#) the ransomware, the configuration is quite sophisticated and detailed compared to other ransomware infections.

"The ransomware and its group have one of the more granular and more sophisticated configurations observed," Kremez told BleepingComputer.

The configuration that was embedded in the analyzed sample can be [found here](#).


```
*\program file*\common files\system em
*\program file*\common files\*shared
*\program file*\common files\reference ass*
*\windows\cache*
*temporary internet*
*media player
*:\users*\appdata*\microsoft
\\*\users*\appdata*\microsoft
```

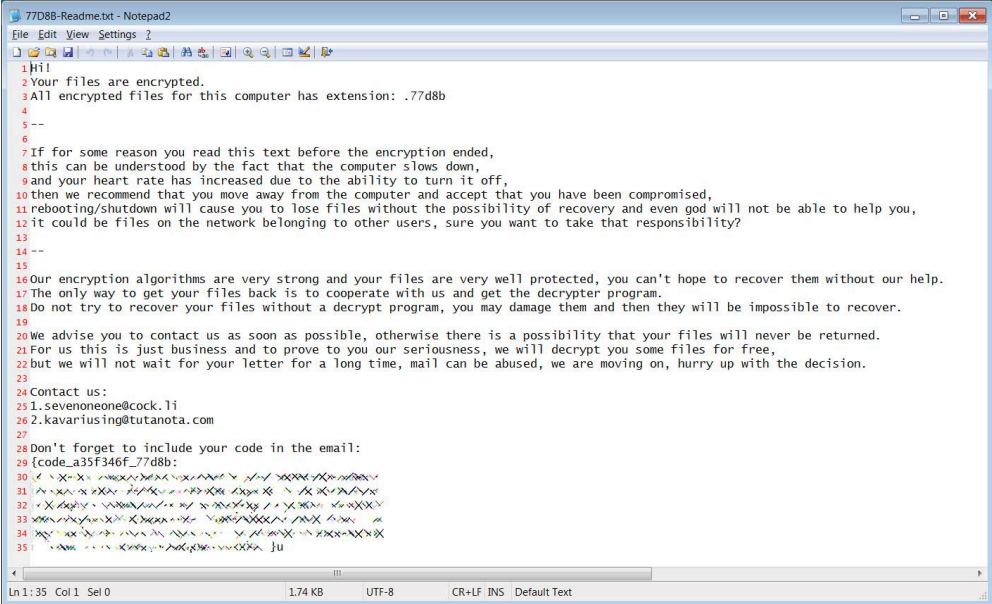
When encrypting files, the Mailto ransomware will append an extension using the format .mailto[{mail1}]. {id} . For example, a file named 1.doc will be encrypted and renamed to 1.doc.mailto[sevenoneone@cock.li].77d8b as seen below.



Encrypted Files

The ransomware will also create ransom notes named using the file name format of {ID}-Readme.txt. For example, in our test run the ransom note was named 77D8B-Readme.txt.

This ransom note will contain information on what happened to the computer and two email addresses that can be used to get the payment amount and instructions.



Mailto / Netwalker Ransom Note

This ransomware is still being analyzed and it is not known if there are any weaknesses in the encryption algorithm that can be used to decrypt files for free. If anything is discovered, we will be sure to let everyone know.

For now, those who are infected can discuss this ransomware and receive support in our dedicated [Mailto / Netwalker Ransomware Support & Help Topic](#).

Is it named Mailto or Netwalker?

When new ransomware infections are found, the discoverer or researchers will typically look for some indication as to the name given to it by the ransomware developer.

When a ransomware does not provide any clues as to its name, in many cases the ransomware will be named after the extension appended to encrypted files.

As the Mailto ransomware did not have any underlying hints as to its real name, at the time of discovery it was just called Mailto based on the extension.

Soon after, [Coveware](#) discovered a [decryptor](#) for the ransomware that indicated that the developer's name for the infection is 'Netwalker'.



Netwalker Decrypter

In situations like this, it is difficult to decide what name we should continue to call the ransomware.

On one hand, we clearly know its name is Netwalker, but on the other hand, the victims know it as Mailto and most of the helpful information out there utilizes that name.

To make it easier for victims, we decided to continue to refer to this ransomware as Mailto, but the names can be used interchangeably

IOCs

Hashes:

```
416556c9f085ae56e13f32d7c8c99f03efc6974b2897070f46ef5f9736443e8e
```

Associated files:

```
{ID}-Readme.txt
```

Mailto email addresses:

sevenoneone@cock.li
kavariusing@tutanota.com

Ransom note text:

Hi!
Your files are encrypted.
All encrypted files for this computer has extension: `.{id}`

--

If for some reason you read this text before the encryption ended,
this can be understood by the fact that the computer slows down,
and your heart rate has increased due to the ability to turn it off,
then we recommend that you move away from the computer and accept that you have been compromised,
rebooting/shutdown will cause you to lose files without the possibility of recovery and even god will not be able to help
it could be files on the network belonging to other users, sure you want to take that responsibility?

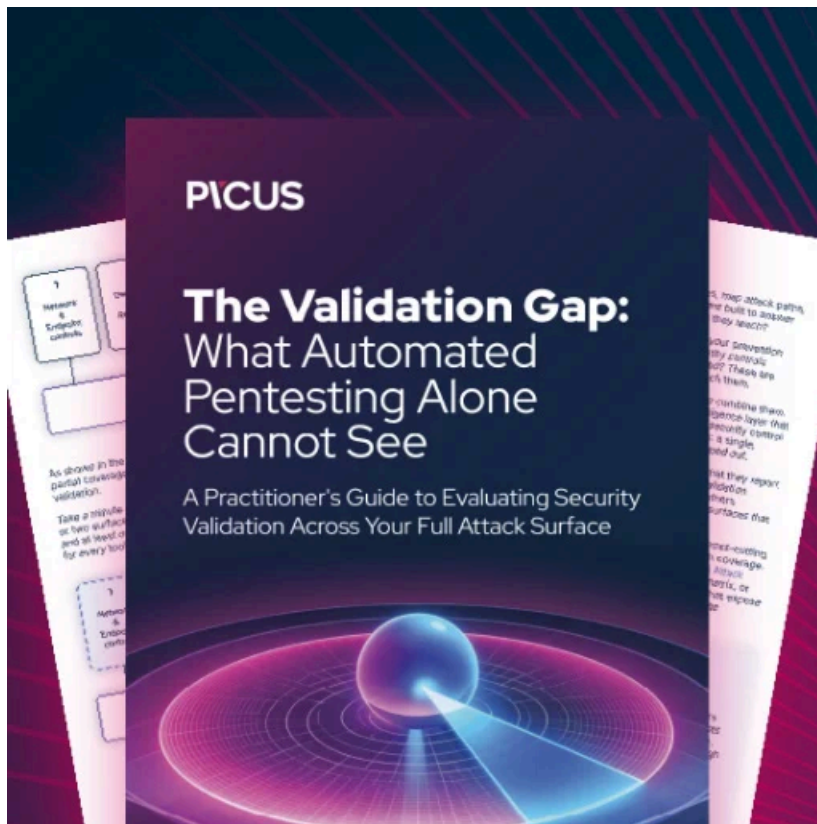
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Our encryption algorithms are very strong and your files are very well protected, you can't hope to recover them without c
The only way to get your files back is to cooperate with us and get the decrypter program.
Do not try to recover your files without a decrypt program, you may damage them and then they will be impossible to recover

We advise you to contact us as soon as possible, otherwise there is a possibility that your files will never be returned.
For us this is just business and to prove to you our seriousness, we will decrypt you some files for free,
but we will not wait for your letter for a long time, mail can be abused, we are moving on, hurry up with the decision.

Contact us:
1.{mail1}
2.{mail2}

Don't forget to include your code in the email:
{code}



[Automated Pentesting Covers Only 1 of 6 Surfaces.](#)

Automated pentesting proves the path exists. BAS proves whether your controls stop it. Most teams run one without the other.

This whitepaper maps six validation surfaces, shows where coverage ends, and provides practitioners with three diagnostic questions for any tool evaluation.

Source: <https://www.bleepingcomputer.com/news/security/mailto-netwalker-ransomware-targets-enterprise-networks/>