



Kernel Filter Technology

SecuTech Solution Inc.

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Background

SecuTech Solution Inc. is a total market oriented software copy dongle vendor. Thinking from customer's point of view, we designed the most market wanted product.

Nowadays, digital intellectual property rights become more important to business entities. Digital intellectual property rights can be various types of digital files, such as video, audio, database, source files, document files and etc. The traditional copy protection solution cannot protect such content files. All the software copy protection dongle are target at executable files, and become vain when face to content protection.

SecuTech never stops technology renovation. Thanks to our talent engineers, we invented **kernel Filter** technology. With help of **Kernel Filter**, we can protect all kind of digital intellectual property rights that based on content files.

About Kernel Filter

What is Kernel Filter?

Kernel Filter is the new technology invented by SecuTech Solution Inc. SecuTech can build other specific applications based on this technology. This technology is target at digital intellectual property rights copy protection. It can be applied for all kinds of content file.

The basic function of such technology is to encrypt content of a file. Without a proper authentication, all the content in the files is encrypted and obfuscated. Only an authorized user can access the correct content of the files. The functionality of **Kernel Filter** can be extended to anti-copy, which derive abundant and various copy protection solution.

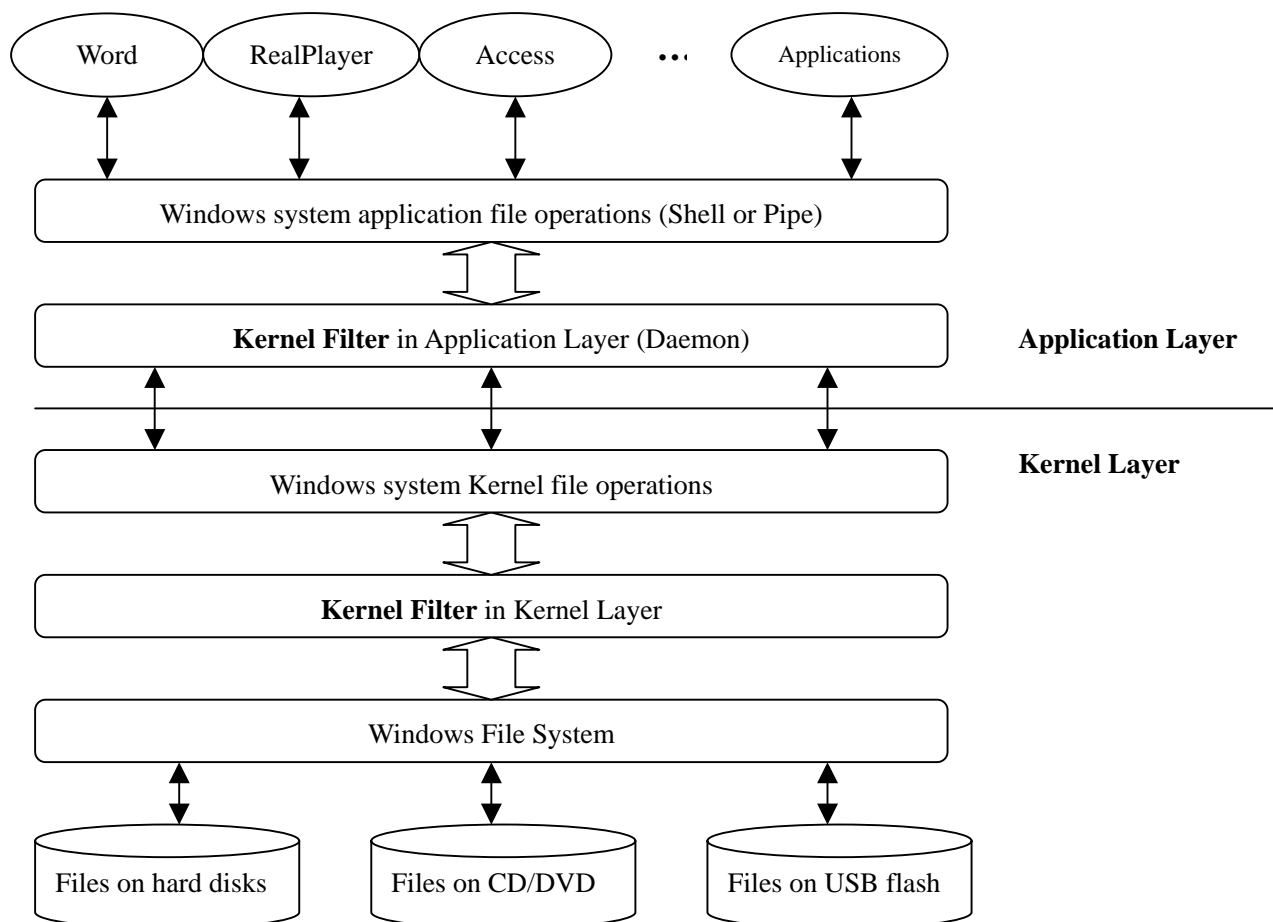
Why Kernel Filter?

The only reason is to protect your digital intellectual property rights and prevent unauthorized access. **Kernel Filter** is versatile and easy.



How does Kernel Filter work?

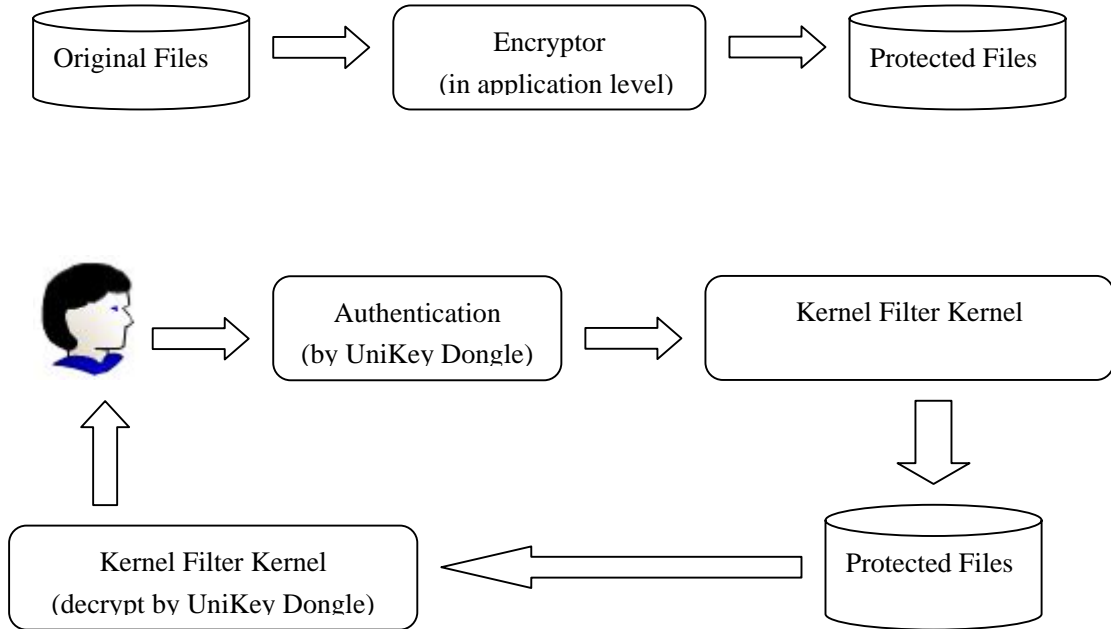
Kernel Filter works in both kernel mode and application layers. It takes advantage of Windows OS's low-level operations, and work as a filter. All the Windows file system operation will be passed to the **Kernel Filter**.



Kernel Filter can filter all the file operation, and identify the purpose of the operations. Since it works at the kernel layer, all operations are totally transparent to end-users. End-user will not be aware of the existence of the kernel filter.



In order to protect a content file, we need follow 2 steps as bellows.



What is Kernel Filter's application?

We can build various copy protection solution based on the **Kernel Filter**.

- **Video** copy protection (rm, avi, mpeg, rmvb...all kind of video files)
- **Audio** copy protection (mp3, aov, au...all kind of audio files)
- **Source files** protection (c, cpp, pas, def, prg, swf... all kind of source files)
- **Image files** protection (jpg, dwg, dwf, img... all kind of image files)
- **Database** files protection (mdb, oracle, sql...all kind of database files)
- **Document** files protection (doc, pdf, txt, html... all kind of document files)

We can use Kernel Filter on various storage medias.

- **Hard disk** encryption: protecting all the data on a hard disk
- **CD/DVD** encryption: protection all the data on a CD/DVD
- **Flash** encryption: protecting all the data on an USB flash



What is the advantage of Kernel Filter?

Compared with other copy protection solution, the Kernel Filter has its own un-overcoming advantages.

- **High Performance**
Most of copy protection solutions are working in the application layer, so they are involved in tremendous computer. Since **Kernel Filter** works mainly in the kernel layer, much less computation is involved, so that it will not interfere the overall system performance.
- **High security level**
Most of copy protection solutions are working in the application layer; they are even based on shell operation, so they are not secure indeed. **Kernel Filter** has two cores, one is in application layer and the other is in the kernel layer. Since **Kernel Filter** is working in a very low-level, so that it works like a virtual file system, even no cache file can be read out. It is impossible to crack this file system, because all the cracking tools are built on top of the **Kernel Filter**.
- **Transparent to end-users**
End-users won't be aware of the existence of **Kernel Filter**. End-users need not perform any other operation to decrypt the content files. So **Kernel Filter** is totally transparent to end-users.
- **Easy usage**
After authentication, all the content files will be decrypted automatically when end-users access the files. End-user need not decrypted manually. The only thing end-users need to do is to point which folder is being protected. Then **Kernel Filter** daemon will finish the rest smartly.
- **Portability**
With help of **Kernel Filter**, the encrypted file is portable, i.e can be



transferred among users. You can send the protected data file your friend, and only him can access the correct content of the file. **Kernel Filter** provides a feasible way for secure file transfer.

- **Better compatibility**

Since **Kernel Filter** works in the kernel mode, it has nothing to do with any upper application. It needs not work an specific application. Unlike ordinary copy protection, they made a special player, document view, or reader for their encrypted files, **Kernel Filter** need not modify any upper application. On the other hand, the encrypted files have the same size as before.

- **Cost effective**

Kernel Filter has various solutions and copy protect schemes. SecuTech promises to provide the most cost-effective copy protection solution.

- **Flexible solution**

How can we build applications on **Kernel Filter**?

1. Standard copy protection solutions.

SecuTech solution will release some standard copy protection solution for standard purpose, such protection for word files, pdf files, video protection, audio protection...

2. OEM copy protection solutions.

SecuTech is happy to cooperate with our valued customer to develop OEM copy protection solutions for special purpose. If any inquiry, please mail to Sales@eSecuTech.com



About SecuTech Solution Inc.

SecuTech Solution Inc, a company based on Canada, specializing in software license management system business, targeted marketing oriented, strongly technical supported, is moving the track to international market full of charge by Unikey, an all in one hardware, contributing her cutting-edge technology to introduce a COMPLETED solution to protect your software and make the best profit of software vendors.

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