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Advanced SystemCare 13.2 Kernel vulnerabilities

BSOD POC's for (Advanced SystemCare 13.2) AscRegistryFilter.sys (CVE-2020-10234)

About

• Description:

Advanced SystemCare 13.2 is a anti-virus/threat detectiong software provided by IObit. The version 13.2.0 includes multiple drivers, one of which, (AscRegistryFilter.sys) is prone to multiple vulnerabilities.

CVE-2020-10234

• Description:

AscRegistryFilter Windows x86 Kernel Driver allows unprivileged user's unrestricted access while sending IOCTL's to the associated device driver. While utilizing beviceIoControl(), if the user provides a NULL entry for the dwIoControlCode parameter. It will result in a BSOD ak.k.a Kernel-Panic.

• POC exploit:

An unprivileged user can send one of the listed IOCTL's found below. These IOCTL codes can be found in the dispatch_function while reverse-engineering the driver with IDA Pro. The BSOD POC in this repository uses the first IOCTL code @x8001E000 . Bound with a NULL buffer.

Address	IOCTL Code Device		Function Method	Access
0x11847	0x8001E000 <unknown></unknown>	0x8001 0x800	METHOD_BUFFERED 0 FILE_READ_ACCESS	FILE_WRITE_ACCESS (3)
0x11852	0x8001E004 <unknown></unknown>	0x8001 0x801	METHOD_BUFFERED 0 FILE_READ_ACCESS	5 FILE_WRITE_ACCESS (3)
0x1185D	0x8001E008 <unknown></unknown>	0x8001 0x802	METHOD_BUFFERED 0 FILE_READ_ACCES	5 FILE_WRITE_ACCESS (3)
0x11868	0x8001E00C <unknown></unknown>	0x8001 0x803	METHOD_BUFFERED 0 FILE_READ_ACCES	5 FILE_WRITE_ACCESS (3)
0x11873	0x8001E010 <unknown></unknown>	0x8001 0x804	METHOD_BUFFERED 0 FILE_READ_ACCES	5 FILE_WRITE_ACCESS (3)
0x1187E	0x8001E014 <unknown></unknown>	0x8001 0x805	METHOD_BUFFERED 0 FILE_READ_ACCES	5 FILE_WRITE_ACCESS (3)
0x11B09	0x8001E020 <unknown></unknown>	0x8001 0x808	METHOD_BUFFERED 0 FILE_READ_ACCESS	FILE_WRITE_ACCESS (3)
0x11B14	0x8001E024 <unknown></unknown>	0x8001 0x809	METHOD_BUFFERED 0 FILE_READ_ACCESS	5 FILE_WRITE_ACCESS (3)
0x11B1F	0x8001E040 <unknown></unknown>	0x8001 0x810	METHOD_BUFFERED 0 FILE_READ_ACCES	5 FILE_WRITE_ACCESS (3)
0x11B2A	0x8001E044 <unknown></unknown>	0x8001 0x811	METHOD_BUFFERED 0 FILE_READ_ACCESS	FILE_WRITE_ACCESS (3)
0x11B35	0x8001E048 <unknown></unknown>	0x8001 0x812	METHOD_BUFFERED 0 FILE_READ_ACCESS	FILE_WRITE_ACCESS (3)

Driver Device names:

\DosDevices\AscRegistryFilter \Device\AscRegistryFilter

```
A problem has been detected and windows has been shut down to prevent damage to your computer.

If this is the first time you've seen this Stop error screen, restart your computer. If this screen appears again, follow these steps:

Check to be sure you have adequate disk space. If a driver is identified in the Stop message, disable the driver or check with the manufacturer for driver updates. Try changing video adapters.

Check with your hardware vendor for any BIOS updates. Disable BIOS memory options such as Caching or shadowing. If you need to use Safe Mode to remove or disable components, restart your computer, press F8 to select Advanced Startup options, and then select Safe Mode.

Technical information:

**** STOP: 0x000000BE (0xC0000005,0x82659230,0xA3769A2C,0x00000000)

Collecting data for crash dump ...
Initializing disk for crash dump ...
Beginning dump of physical memory.
Dumping physical memory to disk: 20
```

• Disclosure timeline:

- 1. Mar 8, 2020 Contacted vendor via support email
- 2. Nothing happened