**SppExtComObjHookAvrf**

<https://forums.mydigitallife.net/posts/1508167/>  
<https://app.box.com/s/mztbabp2n21vvjmk57cl1puel0t088bs>

**Visual Studio:**

launch shortcut Developer Command Prompt for VS 2017 (or 2019)  
execute:  
MSBuild SppExtComObjHook.sln /p:configuration="Release" /p:platform="Win32"  
MSBuild SppExtComObjHook.sln /p:configuration="Release" /p:platform="x64"

**MinGW GCC:**

download mingw-w64  
[Windows x86](https://sourceforge.net/projects/mingw-w64/files/i686-8.1.0-release-win32-sjlj-rt_v6-rev0.7z)  
[Windows x64](https://sourceforge.net/projects/mingw-w64/files/x86_64-8.1.0-release-win32-sjlj-rt_v6-rev0.7z)  
both can compile 32-bit and 64-bit binaries  
extract and place SppExtComObjHook folder inside mingw32 or mingw64 folder  
run \_compile.cmd

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**SppExtComObjPatcher**

**Visual Studio:**

<https://forums.mydigitallife.net/posts/1457558/>  
<https://app.box.com/s/mztbabp2n21vvjmk57cl1puel0t088bs>

**MinGW GCC:**

<https://forums.mydigitallife.net/posts/1462101/>

**Credits**

[namazso](https://forums.mydigitallife.net/posts/1508167/) - SppExtComObjHook, IFEO AVrf custom provider.  
[qad](https://forums.mydigitallife.net/posts/862774) - SppExtComObjPatcher, IFEO Debugger.  
[Mouri\_Naruto](https://forums.mydigitallife.net/posts/1448556/) - SppExtComObjPatcher-DLL  
[os51](https://forums.mydigitallife.net/posts/1462101/) - SppExtComObjPatcher ported to MinGW GCC, Retail/MAK checks examples.  
[MasterDisaster](https://forums.mydigitallife.net/posts/309737/) - Original script, WMI methods.  
[ave9858](https://gist.github.com/ave9858/9fff6af726ba3ddc646285d1bbf37e71) - CleanOffice.ps1  
[Windows\_Addict](https://forums.mydigitallife.net/members/1108726/) - Features suggestion, ideas, testing, and co-enhancing.  
[qewpal](https://forums.mydigitallife.net/posts/1296482/) - KMS-VL-ALL script.  
[NormieLyfe](https://forums.mydigitallife.net/members/846864/) - GVLK categorize, Office checks help.  
[rpo](https://forums.mydigitallife.net/members/120394/), [mxman2k](https://forums.mydigitallife.net/members/2574/), [BAU](https://forums.mydigitallife.net/members/58504/), [presto1234](https://forums.mydigitallife.net/members/presto1234.647219/) - scripting suggestions.  
[Nucleus](https://forums.mydigitallife.net/members/80361/), [Enthousiast](https://forums.mydigitallife.net/members/104688/" \t "_blank), [s1ave77](https://forums.mydigitallife.net/members/293479/), [l33tisw00t](https://forums.mydigitallife.net/members/325887/), [LostED](https://forums.mydigitallife.net/members/77147/" \t "_blank), [Sajjo](https://forums.mydigitallife.net/members/1023044/" \t "_blank) and MDL Community for interest, feedback and assistance.

[abbodi1406](https://forums.mydigitallife.net/posts/1343297/) - KMS\_VL\_ALL author

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[MDL forums](https://forums.mydigitallife.net/forums/51/) - the home of the latest and current emulators.  
[mikmik38](https://forums.mydigitallife.net/posts/838505) - first reversed source of KMSv5 and KMSv6.  
[CODYQX4](https://forums.mydigitallife.net/threads/41010/) - easy to use KMSEmulator source.  
[Hotbird64](https://forums.mydigitallife.net/threads/50234/) - the resourceful vlmcsd tool, and KMSEmulator source development.  
[cynecx](https://forums.mydigitallife.net/threads/50949/) - SECO Injector bypass, SppExtComObj KMS functions.  
[deagles](https://forums.mydigitallife.net/posts/856978) - SppExtComObjHook Injector.  
[deagles](https://forums.mydigitallife.net/posts/839363) - KMSServerService.  
[ColdZero](https://forums.mydigitallife.net/posts/1475544/) - CZ VM System.  
[ColdZero](https://forums.mydigitallife.net/posts/1476097/) - KMS ePID Generator.  
[kelorgo](https://forums.mydigitallife.net/posts/838023), [bedrock](http://forums.mydigitallife.net/posts/838114) - TAP adapter TunMirror bypass.  
[mishamosherg](https://forums.mydigitallife.net/posts/1259604/) - WinDivert FakeClient bypass.  
[Duser](https://forums.mydigitallife.net/posts/860489) - KMS Emulator fork.  
[Boops](https://forums.mydigitallife.net/threads/67038/) - Tool Ghost KMS (TGK).  
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