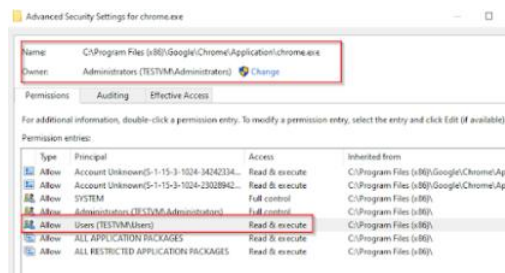


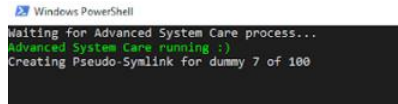
\_\_\_\_\_

IOBit Advanced System Care (ASC) sets the "Junk File Clean" setting as default. So a user don't have to select the feature manually.

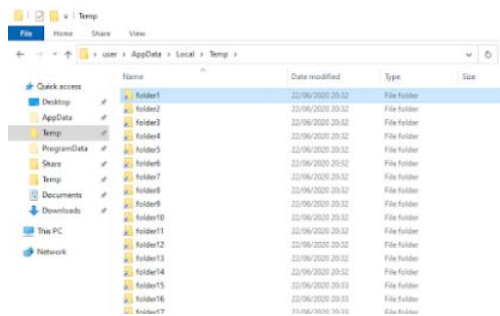




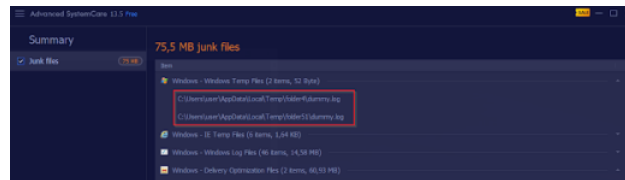
I wrote a script to automatize the attack. An attacker can wait for the ASC.exe process. Once the process is running the attacker will create dummy files in %temp% and replace them after one second with a pseudo-symlink to "C:\Program Files (x86)\Google\Chrome\Application\chrome.exe". The script creates 100 pseudo-symlinks to make sure ASC will detect at least one file as a temp file.



The temp folder it will look like this:



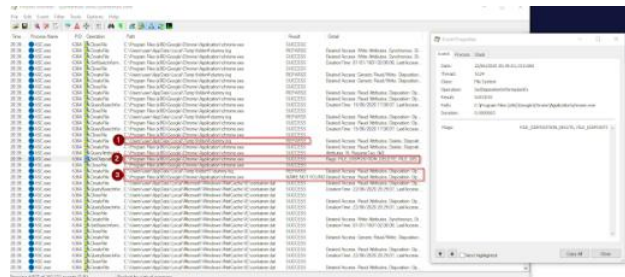
ASC will detect at least one file as a temp file and mark them for deletion



When things get "fixed"...

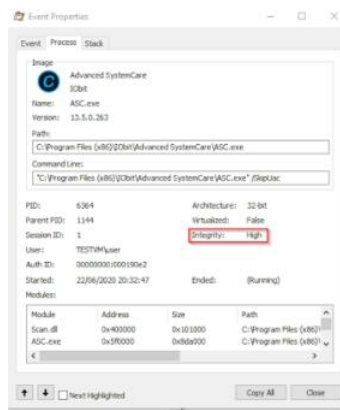


...the pseudo-symlink target will be deleted



1. ASC follows the repare point
2. ASC deletes the file
3. A second dummy file was created but at this point the pseudo-symlink target was already deleted

This operation is performed with high integrity



Conclusion: This attack can be avoided by checking reparse points and/or impersonating a user while performing delete operations in user controlled folders / on user controlled files.

Personal Note: I contacted IOBit to submit the bug. Unfortunately they were not interested because:

*Presently we have a great test team which will find out all the bugs of our products.*

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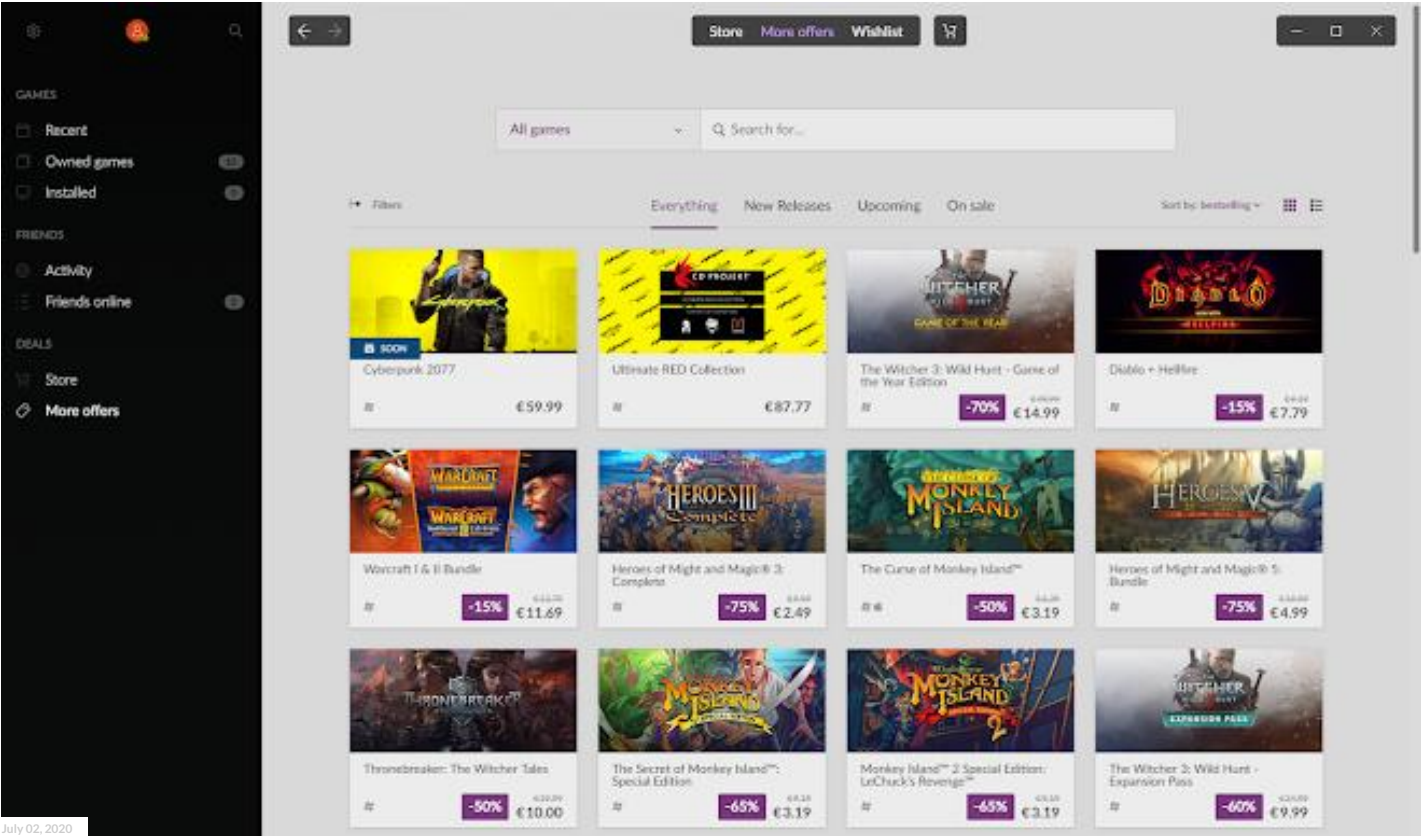
Search: winsat

Auto-elevated	Executable	DLL	Procedure
✓	winsat.exe	d3d10_1.dll	DllMain
✓		d3d10_1core.dll	DllMain
✓		d3d10.dll	DllMain
✓		d3d10core.dll	DllMain
✓		d3d11.dll	DllMain
✓		dxgi.dll	DllMain
✓		winmm.dll	DllMain

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