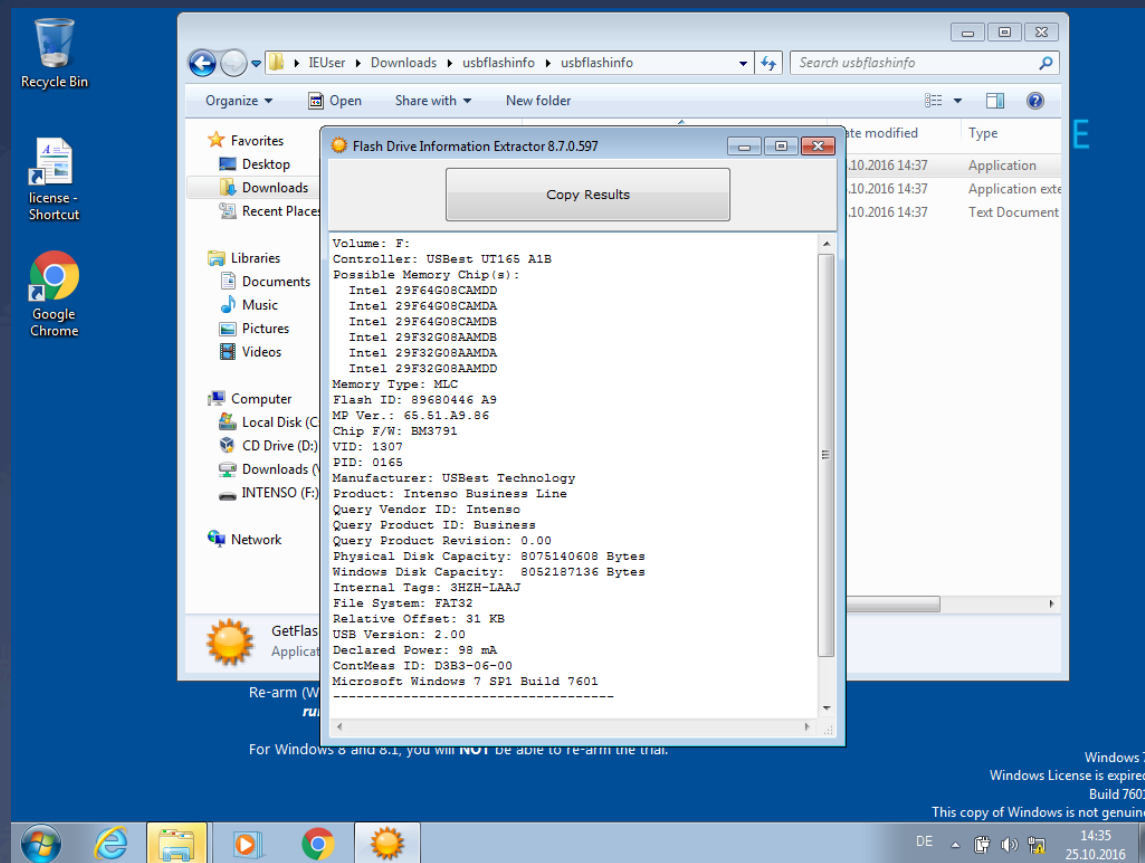


# Bad USB

6. Security Meetup  
Kassel, Matthias  
Altmann

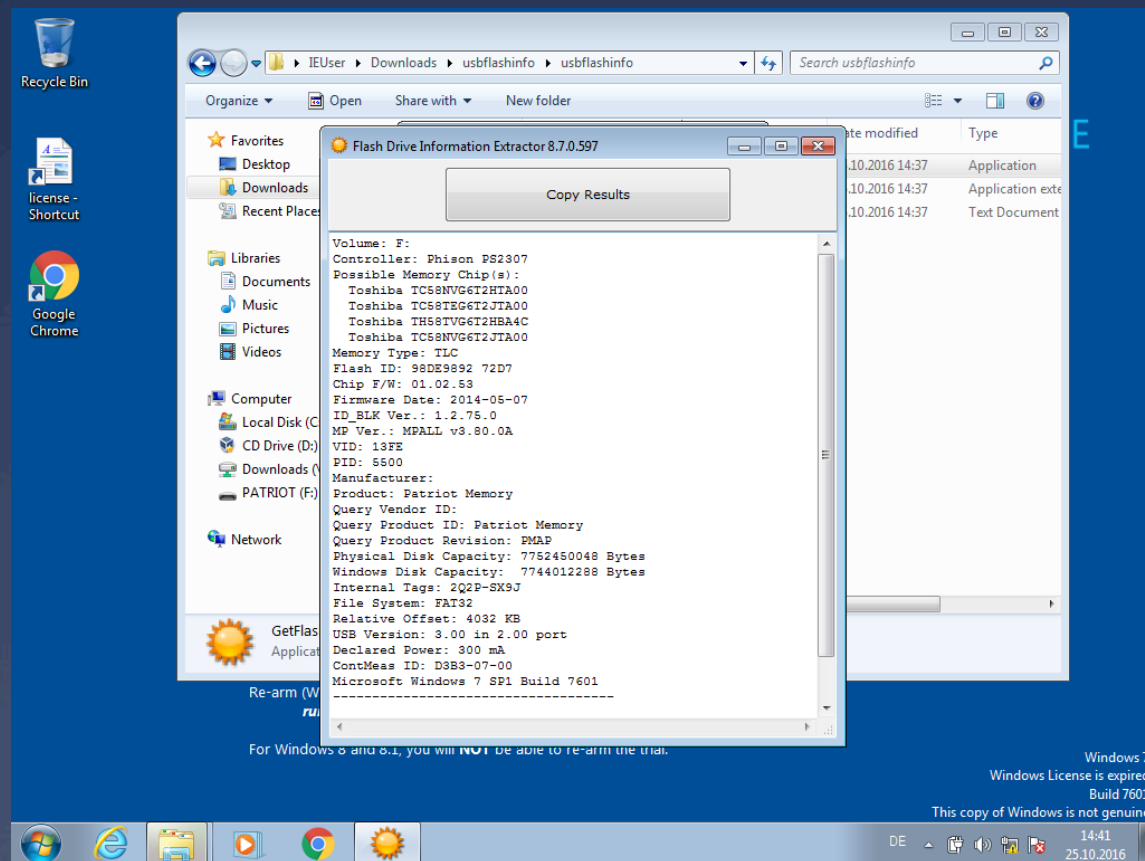
# Bad USB

- \* <https://srlabs.de/wp-content/uploads/2014/07/SRLabs-BadUSB-BlackHat-v1.pdf>
- \* <https://github.com/daveti/badusb/blob/master/ppt/SRLabs-BadUSB-Pacsec-v2.pdf>
- \* <https://github.com/brandonlw/Psychson>
- \* <https://opensource.srlabs.de/projects/badusb>
- \* <http://null-byte.wonderhowto.com/how-to/make-your-own-bad-usb-0165419/>
- \* <https://www.pjrc.com/teensy/>



For Windows 8 and 8.1, you will NOT be able to re-arm the trial.

Windows 7  
Windows License is expired  
Build 7601  
This copy of Windows is not genuine  
DE 14:35  
25.10.2016



# Rubber Ducky

- \* <https://ducktoolkit.com/>
- \* <https://github.com/hak5darren/USB-Rubber-Ducky/wiki>
- \* Powershell Empire Rubber Ducky Modul
- \* [https://www.powershellempire.com/?page\\_id=104](https://www.powershellempire.com/?page_id=104)
- \* Community Payload Generators, Firmware, Encoder und Toolkits
- \* <http://hakshop.myshopify.com/products/usb-rubber-ducky-deluxe>

# Duckuino

- \* <https://d4n5h.github.io/Duckuino/>
- \* <https://github.com/d4n5h/Duckuino>

# Encoder / Decoder

- \* Jar entpacken und Decompiler verwenden
- \* Encoder kann RTF und normalen Text
- \* keyboard.properties liegt Char To Hex
- \* Encoder#encodeToFile

# Firmware

- \* <https://github.com/hak5darren/USB-Rubber-Ducky/wiki/Flashing-ducky>
- \* <https://forums.hak5.org/index.php?/topic/28824-faq-frequently-asked-questions/>



# Firmware bearbeiten

- \* USB-Rubber-Ducky/Firmware

# VID / PID

- \* system\_profiler SPUSBDataType
- \* Product ID / Vendor ID
- \* VID PID Swapper

# Teensy

\* <https://www.pjrc.com/teensy/>

# Schutz

## Hardware:

- \* <http://www.ironkey.com/en-US/solutions/protect-against-badusb.html>
- \* <http://int3.cc/products/usbcondoms>

## Software:

- \* Keine neuen HIDs erlauben:  
<http://security.stackexchange.com/questions/64524/how-to-prevent-badusb-attacks-on-linux-desktop>
- \* Blacklisting VID/PID (Black Hat: Blacklistanalyse verkaufter Software)  
<http://security.stackexchange.com/questions/92131/hardware-devices-for-protecting-against-badusb>  
<https://www.gdata.de/de-usb-keyboard-guard>
- \* Scannen der USB-Firmware (Black Hat: Spoofen entsprechender Firmware)

# Schutz

## Organisatorisch

- \* USB-Sticks nicht als Übertragungsmedium verwenden
- \* Bildschirm sperren
- \* Rechner soweit möglich niemanden anderem zugänglich machen