IPKey

SOUTH-EAST ASIA

2. Best Practices on IPR Investigations, Evidence Gathering, and Conducting Enforcement Operations

FREDERICK VANNESTE |
EU EXPERT | BELGIAN CUSTOMS | INVESTIGATIONS

www.ipkey.eu

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Investigation Methods

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Finding online counterfeit

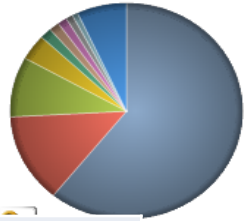
- **Feedback from seized parcel with counterfeit**
- **Complaint from private sector**
- **Request from partner country**
- **Other governmental agency**
- **Own research - Osint**

Collecting data and link to website

- **All data of seizures is put in a database**
  - National database with nominal data
  - Export to copis
- **Automatically generation of letters to the addressees**
- **Addressee answers us the information by email:**
  - Name of the website
  - Name of the account of the seller
  - Price

B. Seizure DB Overview 2014 - 2016

- Origin



- Websites used for counterfeit

Web	2014	2015	2016
ALIEXPRESS	55,03%	57,90%	44,56%
EBAY	6,95%	5,70%	10,17%
rbcbe.com	0	0	4,98%
WISH	1,33%	1,65%	4,37%
bebaskets.com	0	0	2,95%
Facebook	0	0	1,73%
IOFFER	12,28%	0,37%	0,81%
ALIBABA	1,48%	0,92%	0,51%
Others	22,93%	24,73%	28,99%

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Magicals words for counterfeit

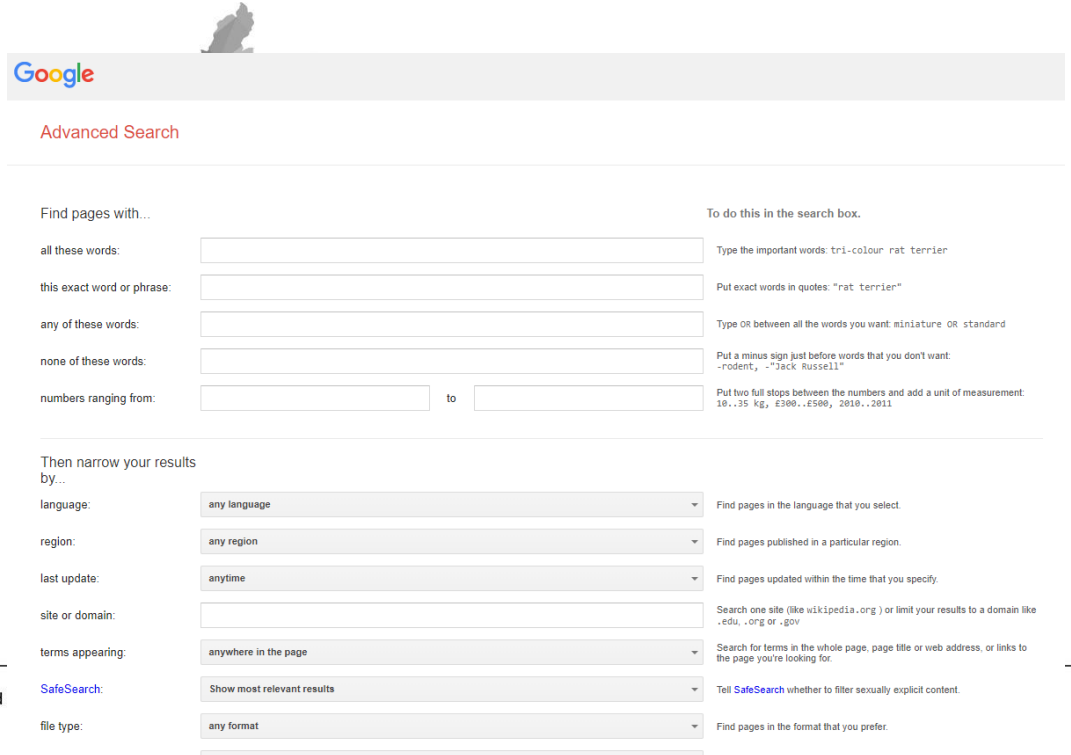
- Cheap
- Outlet
- Replica
- Fake
- Famous brand
- Luxury
- Sales
- Popular

How recognizing online counterfeit

- Bad translations
- Cheap
- No contact details
- No VAT numbers
- No logo/link of review/rating company or verified service
- Check on counterfeit.io

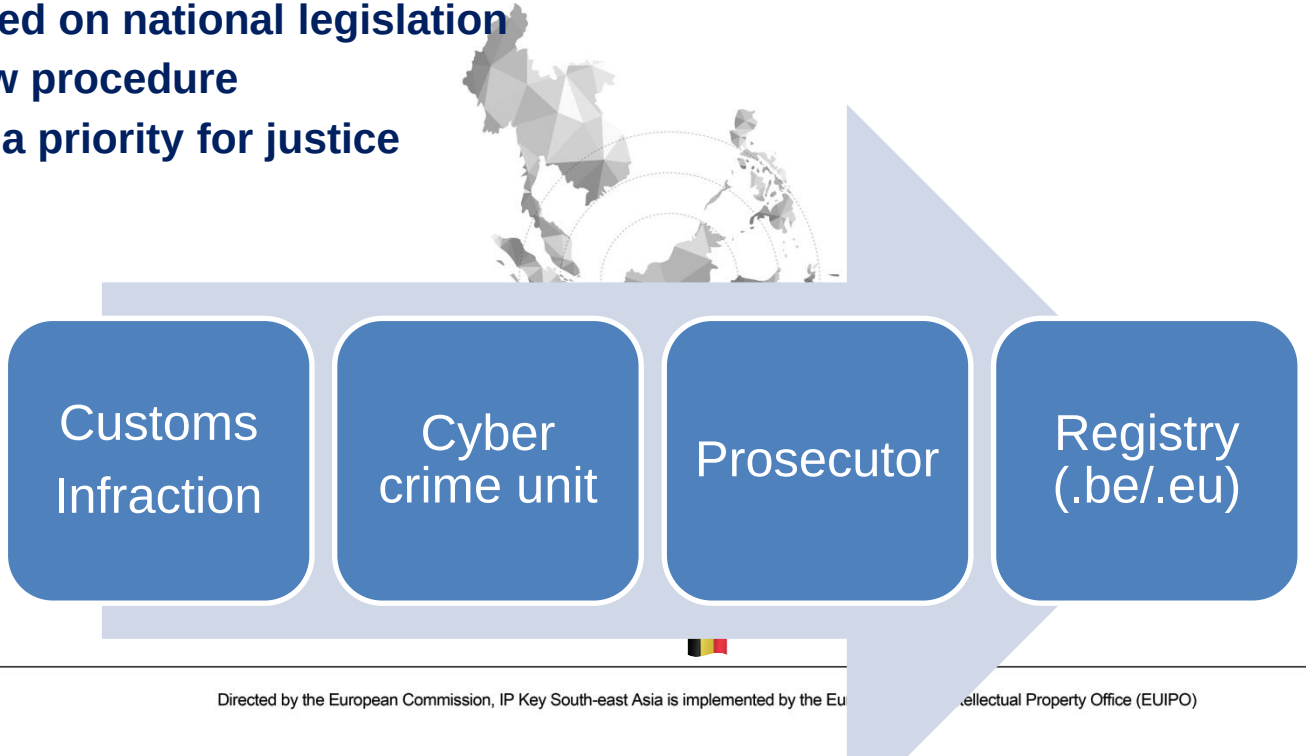
Advanced search google

- www.google.be/advanced_search



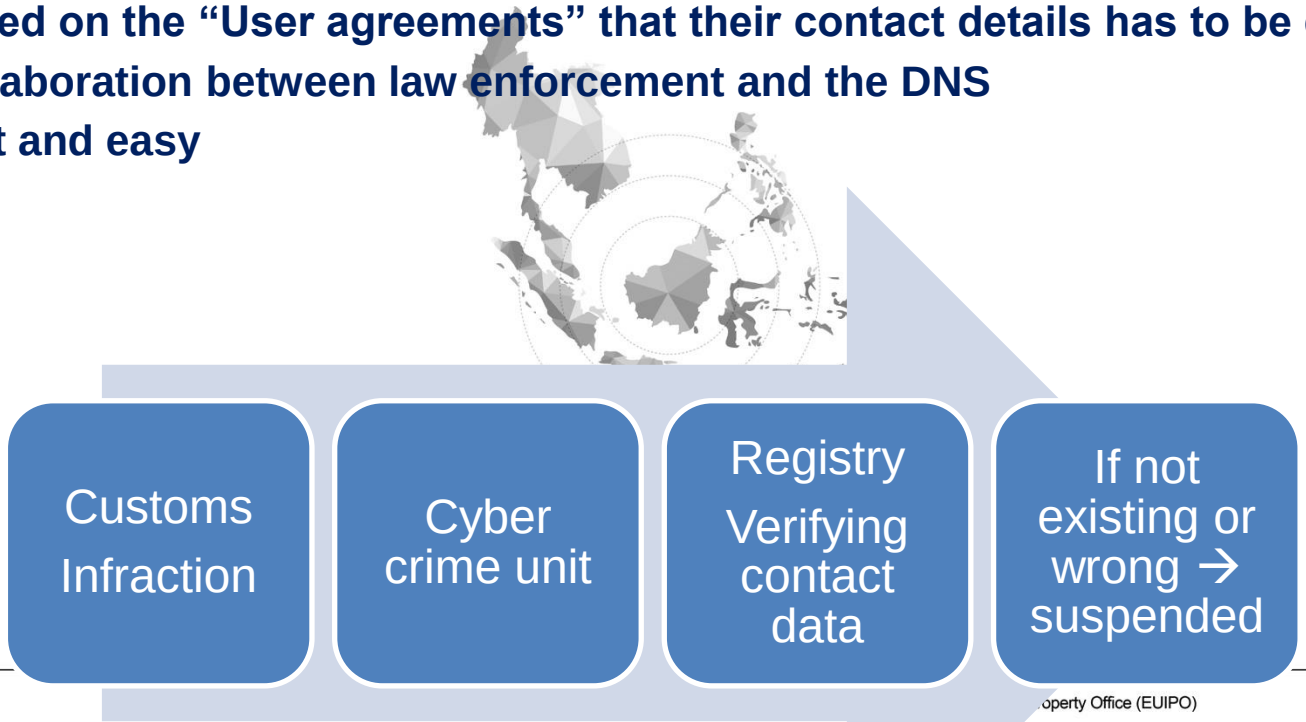
National legal framework: Procedure to close a domain

- **For national CCTLD (Country Code Top Level Domain)**
- **Based on national legislation**
- **Slow procedure**
- **Not a priority for justice**



Administrative procedure to close domain

- **For national CCTLD (Country Code Top Level Domain) or .eu**
- **Based on the "User agreements" that their contact details has to be correct**
- **Collaboration between law enforcement and the DNS**
- **Fast and easy**



STOP PAGE

France
Belgium
Belgium
Romainia
DOUANES
& DROITS
INDIRECTS
economie
DOUANE
CYBERSQUAD
Operation In Our Sites
Project TransAtlantic II / Project American Icon
This domain name has been seized
Operation In Our Sites-Project TransAtlantic II is a coordinated effort by U.S. and European law enforcement agencies targeting websites and their operators that sell counterfeit goods.

Assessment

- Procedure is smooth, but not smooth enough (e.g. sites like aliexpress.com)
- Legal framework is not/never up to date with computer crime
- Delicate balance between privacy and technological means
- More ‘open laws’ required
- Impact of closing is relatively low, but not inexistent
- International cooperation has to improve (the other side is ahead of us)
- Use the private sector! Transfer of information as well as lobby work

Investigation method

- Search for counterfeit in post and courier
- Ask the addressee who was the seller and with marketplace and the address of his wallet
- Follow the parcels to the postbox
- Follow the bitcoin via blockseer

- Search for mistakes

Set up – Online investigations

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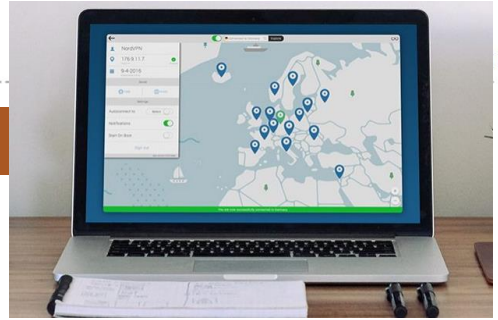
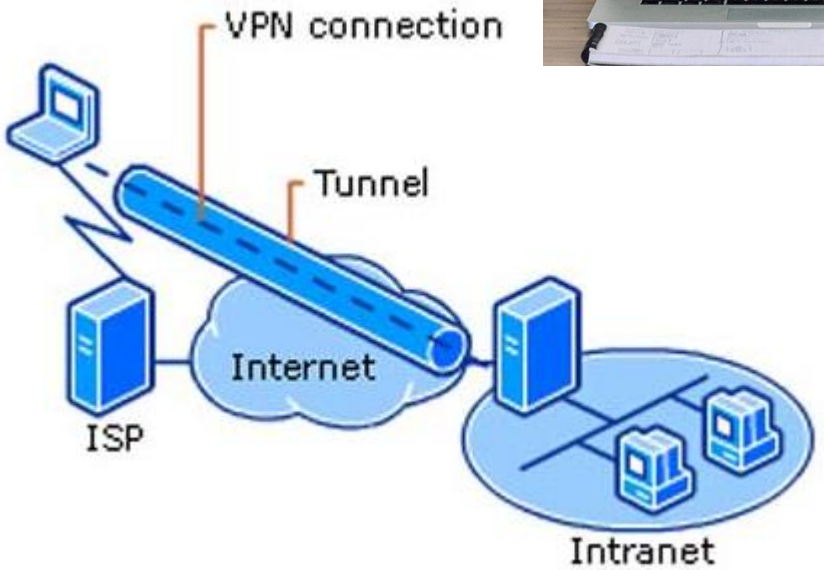
Index of OSINT TOOLS

- To surf safely
- To surf anonymously
- Search Engines
- Compilation tools
- Social Media
- Image, Video and Multimedia Search
- Geo-Location Tools
- Email
- Archive.org

SURF SAFE - VPN – Virtual Privat Network



- Hide your IP address
- Change your IP address
- Mask your location
- Encrypt data transfers
- Access blocked websites



VPN – VIRTUAL PRIVAT NETWORK

SURF SAFE – FREE VPN

- **FREE :**
- **TunnelBear**
- **Betternet**
- **Hotspot Shield**

30 day money back guarantee satisfied or refunded :

- **NordVPN**
- **ExpressVPN**

SURF SAFE - VM – Virtual Machine

- Emulation of a computer system
- Unable to identify
- Surfing safe
- No impact on your PC

Tor Browser

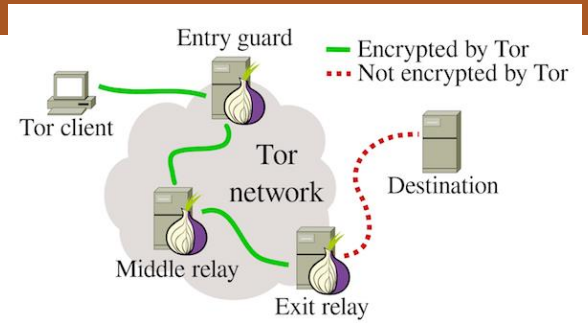
- ***https://torproject.org/download***

- can be used as another browser
- Encrypts the data
- successively uses different servers
- allows anonymous communication
- allows to surf on the darknet

Tor aka The Onion Router

- Since mid ’90s by United States Navy lab
- Anonymization software
- Protecting privacy
- Censorship circumvention tool
- Protection against traffic analysis
- Protection against eavesdropping
- 7000+ relays worldwide
- Number of clients: 1 500 000
- Safer communication for whistleblowers and dissidents
- Hides footprints of LE, military, gov
- **Used by many criminals**

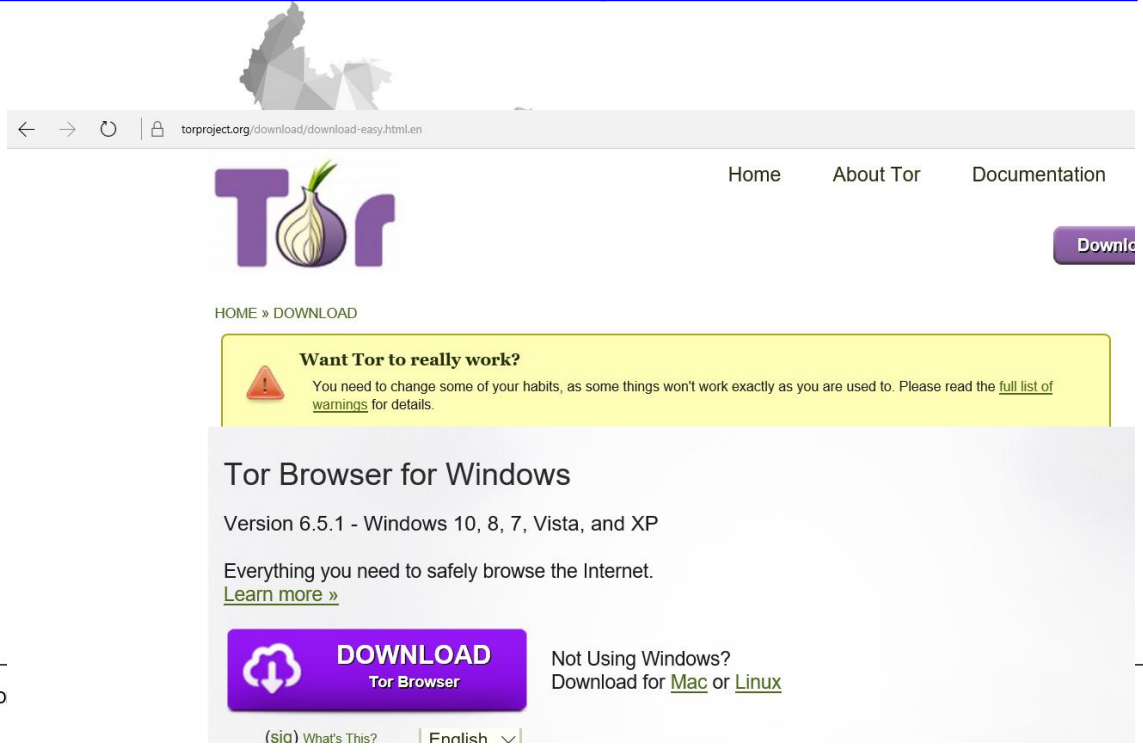
Tor: Overview



- Onion routing (like peeling an onion)
- Tor Browser (client)
- Relays (3)
  - Entry/Guard
  - Middle
  - Exit = interpreted as source (logfiles webserver)
- Asymmetric encryption
- Tor decouples who you are from what you do (anonymous)
  - Entry relay knows who you are
  - Exit relay knows what you do

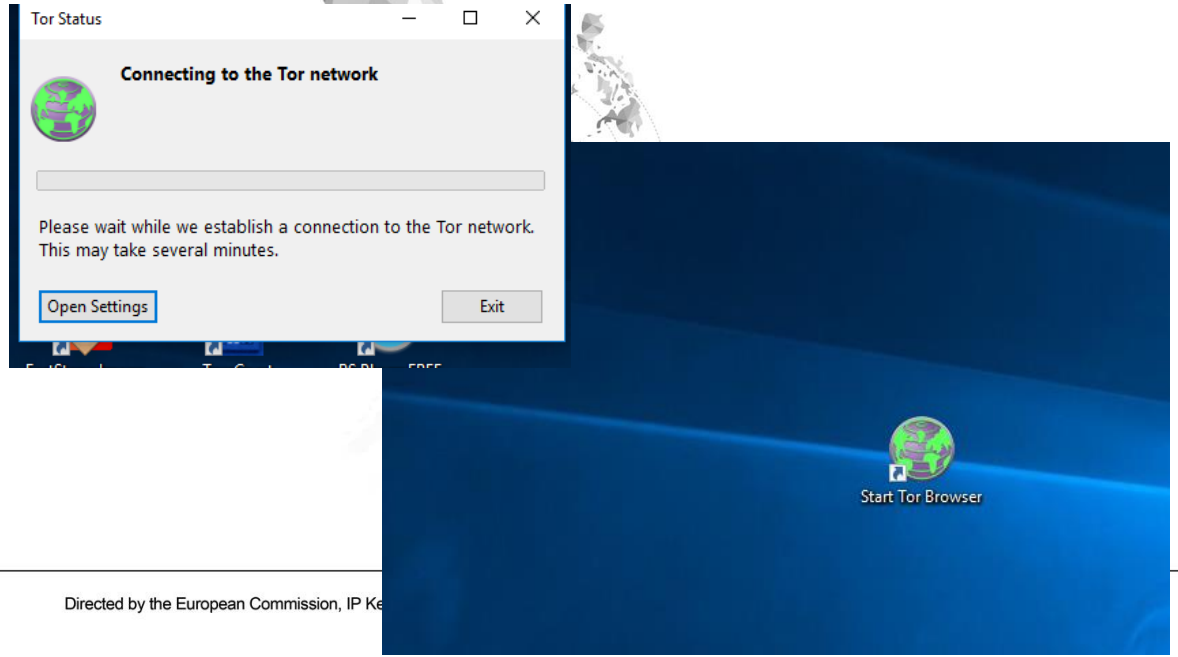
Getting start – On PC

- **Download TOR: https://www.torproject.org/download/download-easy.html.en**

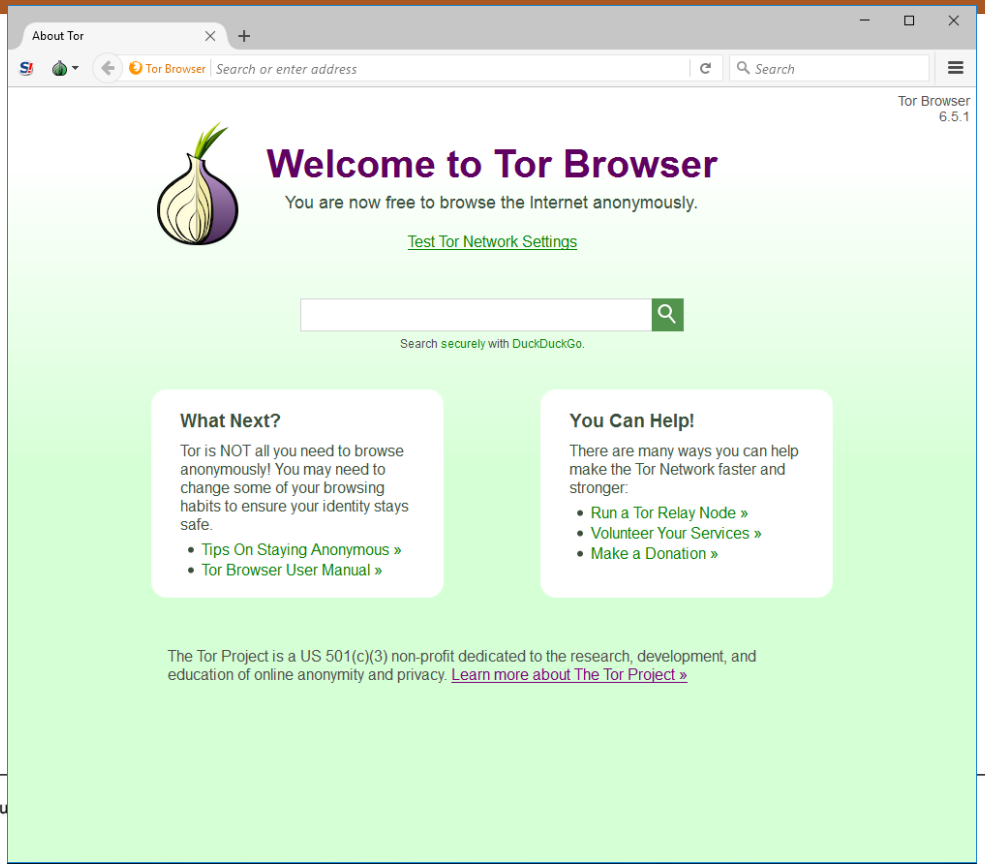


Getting start – On PC

- **Install Tor and open Tor**



Getting start – On pc



Surf anonymous

Register / Login: CEPOL - ... | Dark Net Markets List - (T... | Drugs :: HANSA Market

hansamkt2rr6nfg3.onion/category/1/

New Identity Ctrl+Shift+U
New Tor Circuit for this Site Ctrl+Shift+L
Security Settings...
Tor Network Settings...
Check for Tor Browser Update...

Tor circuit for this site
(hansamkt2rr6nfg3.onion):
- This browser
- France (212.47.239.151)
- Germany (46.4.78.3)
- France (5.196.88.122)
- (relay)
- (relay)
- (relay)
- Onion site

Search HANSA Market...

Drugs 18368
Cannabis 6735
Tobacco 28
Weight Loss 57

Drugs

Filter

Promoted Listing

1000 XTC Pills, Mix of choise (E.U. l
HollandDutch [+52|0] Level 10 (60+)
Ships from: Netherlands
Also available:
1500 XTC Pills, Mix of choise (E.U. Listing)
2000 XTC Pills, Mix of choise (E.U. Listing)
2500 XTC Pills, Mix of choise (E.U. Listing)
3000 XTC Pills, Mix of choise (E.U. Listing)
4000 XTC Pills, Mix of choise (E.U. Listing)
5000 XTC Pills, Mix of choise (E.U. Listing)
(2 additional variants available)

Register / Login: CEPOL - ... | About Tor

https://enet.cepol.europa.eu/index.php?id=login-apply

New Identity Ctrl+Shift+U
New Tor Circuit for this Site Ctrl+Shift+L
Security Settings...
Tor Network Settings...
Check for Tor Browser Update...

Tor circuit for this site
(europa.eu):
- This browser
- France (212.47.239.151)
- Germany (134.130.181.43)
- Netherlands (46.166.148.144)
- Internet

Educate, innovate, motivate

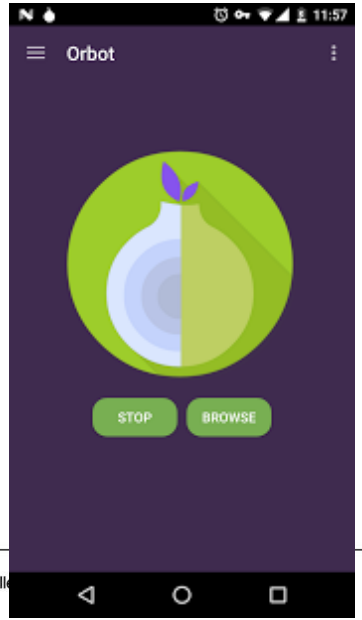
Android: Orbot

Google Play

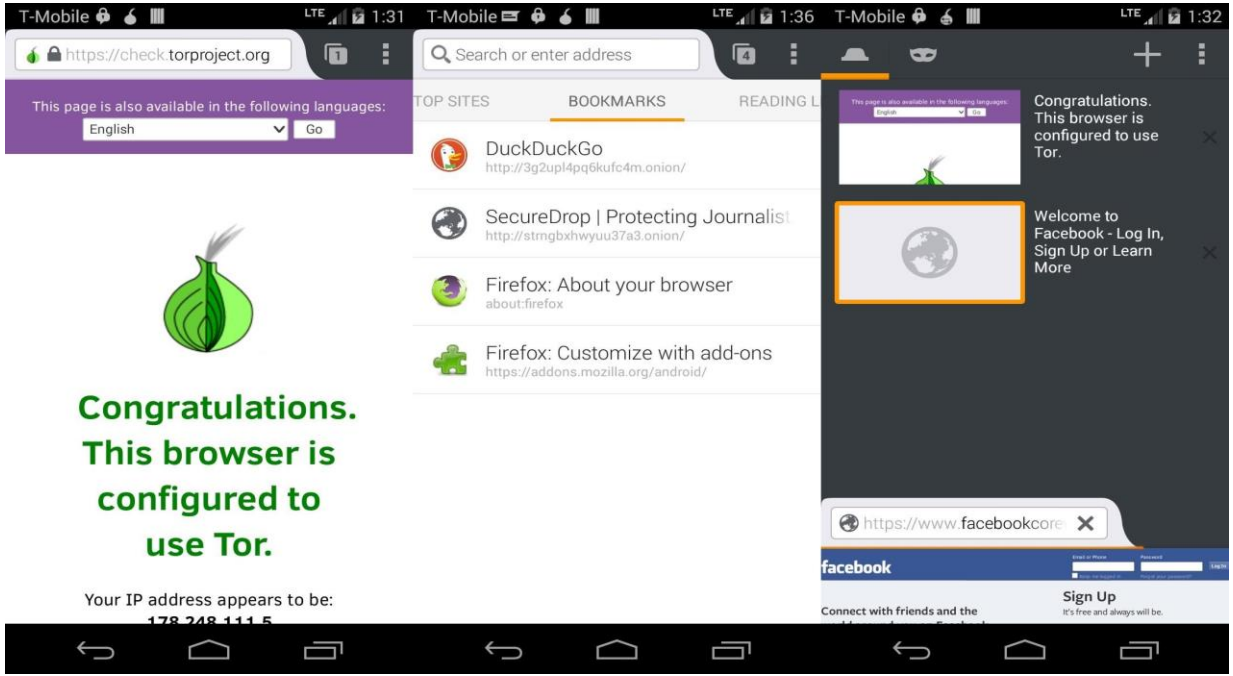
- Tor on Android
  - Use with Orfox

    (Tor Browser for Android)
  - Use with ChatSecure

    (chat confidentially)



Android: Orfox



Nirsoft,com

nirsoft.net

64-bit Download
Panel
Forensics
Pre-Release Tools
Articles

Never Forget another password - 2019 Best Password managers
Trusted password manager world wide. Keep your digital identity save and secure! top-passwordmanager.com

- Password Recovery Utilities
  - WebBrowserPassView - View the passwords stored by your Web browser (Suppor
  - RouterPassView: Router Password Recovery - Extract passwords and other inform
  - Mail PassView - Recover the passwords of popular email clients: Outlook Express
  - Dialupass: Dialup Password Recovery - Recovers the passwords of dialup entries
  - Network Password Recovery - Freeware utility that recovers the network passwor
  - BulletsPassView - Reveal the passwords hidden behind asterisk ('****') or bullets
  - WirelessKeyView - Recover lost wireless network key stored on Windows
  - PstPassword - Recover the password of Outlook PST file.
- Network Monitoring Tools
  - WirelessNetView - View the details of all wireless network in your area (SSID, Si
  - Wireless Network Watcher - Show who is connected to your wireless network.
  - BluetoothView - Monitor the Bluetooth activity around you.
  - SmartSniff: TCP/IP Sniffer - Capture TCP/IP packets on your network adapter and
  - CurrPorts: TCP/IP Connections Viewer - Freeware tool that displays the list of all
  - AdapterWatch - displays useful information about your network adapters: IP addre received or sent, The current transfer speed, and more...
  - DownTester - Test the download speed of your Internet connection.
- Internet Related Utilities
  - BrowsingHistoryView: Web Browser History Viewer - View browsing history of y
  - IPNetInfo - Find all available information about an IP address: The owner of the I phone, fax, and email), and more.
  - MyLastSearch - View your latest searches with Google, Yahoo, and MSN.
  - VideoCacheView - Copy video files (.flv and others) from the Web browser cache
  - SiteShoter - Take a screenshot of a Web site.
  - DNSDataView - View the DNS records of specified domains.
  - IECookiesView: Cookies Viewer/Manager for IE - View/Delete/Modify the cooki
  - IEHistoryView - View/Delete the URLs that you visited in the last few days.
  - WhoisThisDomain - Get information about a registered domain.
  - DNSDataView - DNS lookup tool.
- MS-Outlook Tools
  - NK2Edit - Edit, delete, add, merge, and repair records in the AutoComplete files (
  - OutlookAttachView - View and extract attachments of your Outlook mailbox.
  - OutlookStatView - Get statistics about your Outlook mailbox.
  - OutlookAddressBookView - View or export the address book of Outlook.

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Osint

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Search Engine on internet

- Baidu
- Bing
- Ask
- AOL
- Excite
- Yahoo
- Dogpile
- Metacrawler
- Gigablast
- …

People Search Engine

- **WebMii : http://webmii.com**
- **Pipl : https://pipl.com/**
- **Peoplesearch : https://www.pplesearch.com/**

Searching by the photo

- https://images.google.com
- http://www.bing.com/images
- http://facesearch.com
- http://karmadecay.com
- Jeffrey's Image Metadata Viewer : http://exif.regex.info/exif.cgi
- TinEye : https://www.tineye.com/
- PicTriev (searching faces on the web) : http://www.pictriev.com/?lang=fr
- Face recognition
- ExifViewer

TinEye
Reverse Image Search

Archive.org

https://web.archive.org/web/*/www.minfin.fgov.be

receche structuré sur facebook

Messagerie - HORSCH... | Gmail | Calendrier - simon.hor... | Smilovice | Google | Images | Maps | Bureau | PERSO | LogoDesign | Musique | Photo | Divers | Trac

SIGN IN

ABOUT CONTACT BLOG PROJECTS HELP DONATE JOBS VOLUNTEER PEOPLE

INTERNET ARCHIVE WayBack Machine

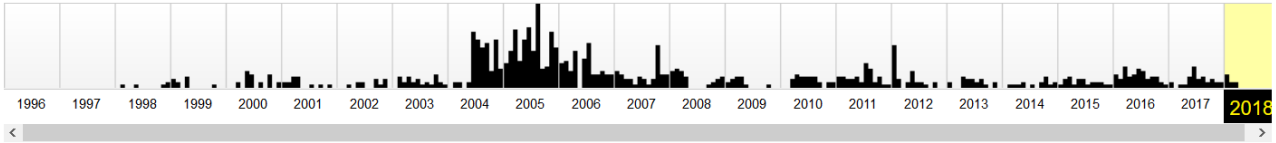
Explore more than 338 billion web pages saved over time

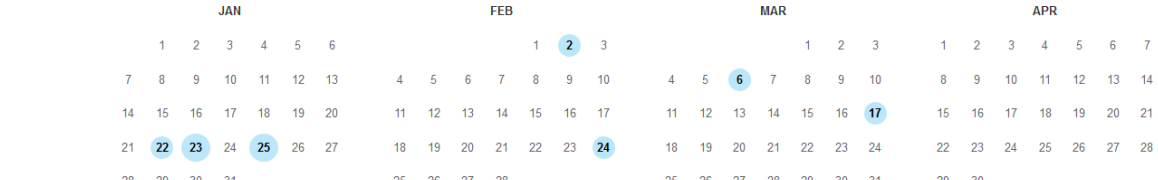
www.minfin.fgov.be

DONATE

Saved **848 times** between February 15, 1998 and March 17, 2018.

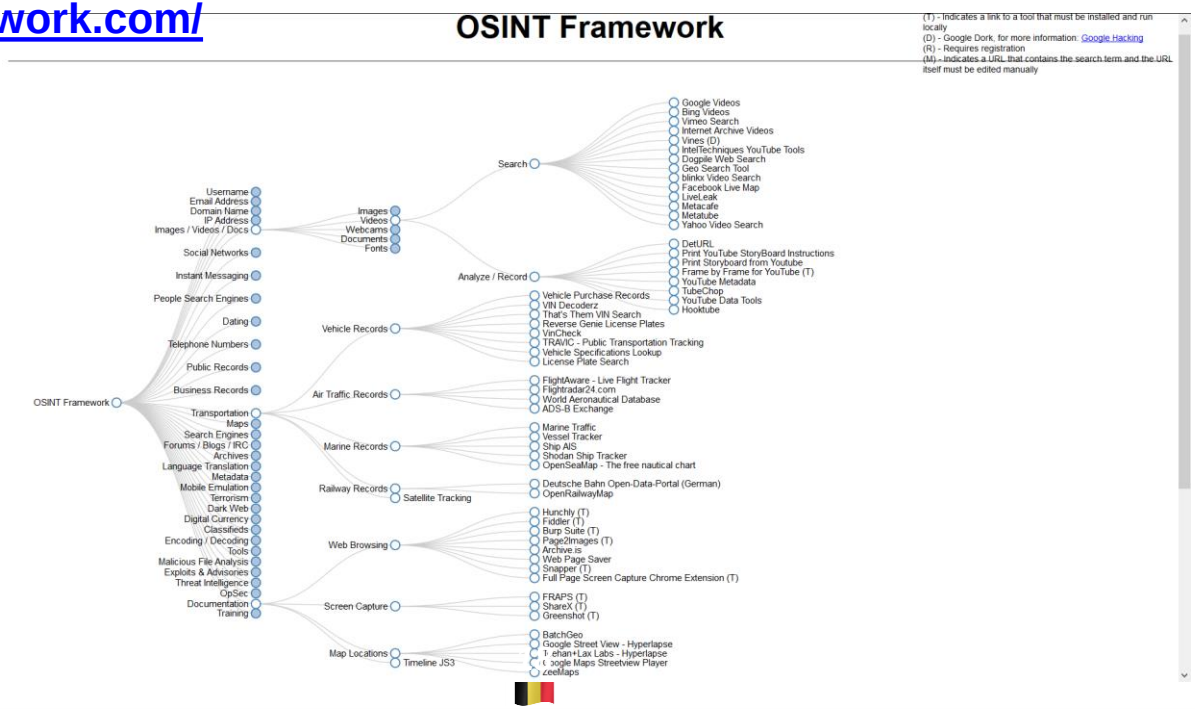
Summary of minfin.fgov.be · **Site Map of minfin.fgov.be**





Osint Toolbox

http://osintframework.com/



Finding online counterfeit

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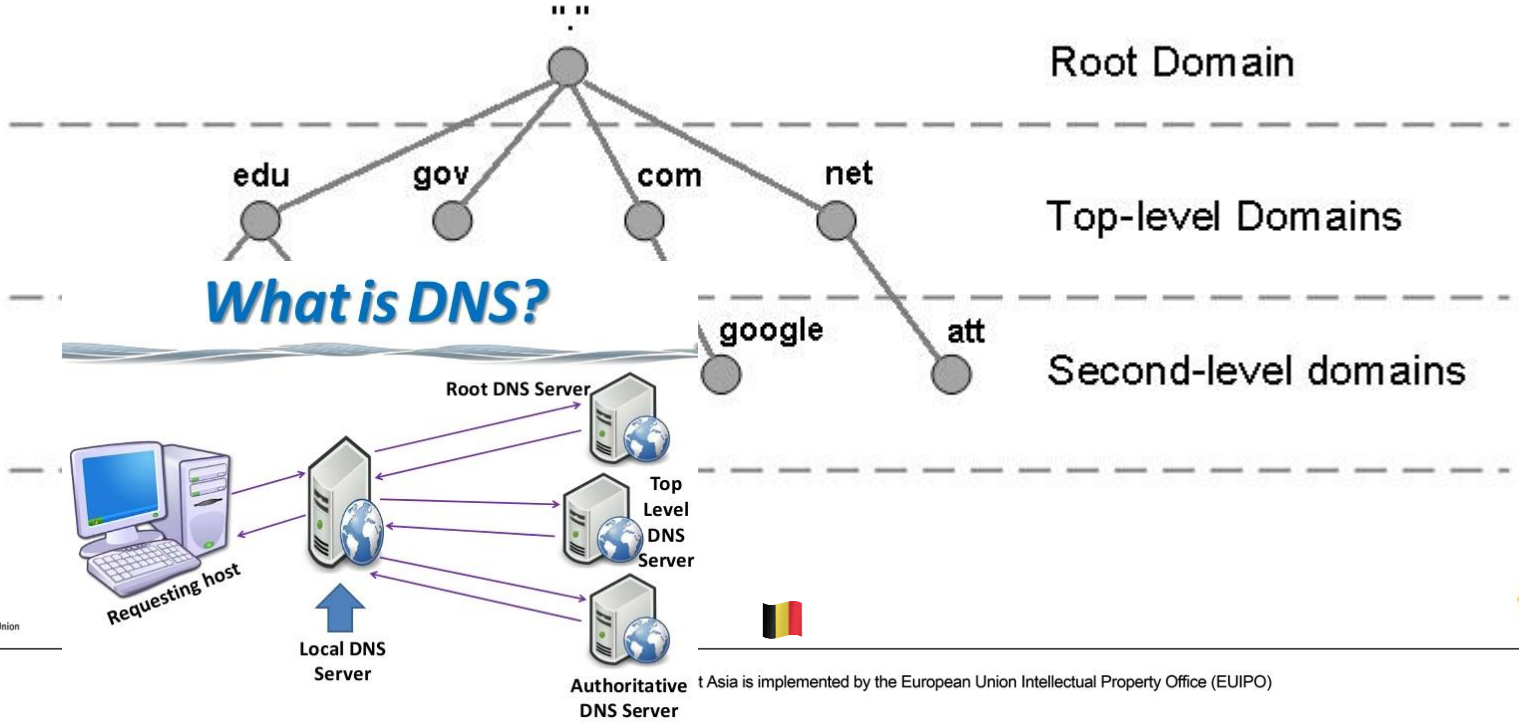
Finding online counterfeit

- **Feedback from seized parcel with counterfeit**
- **Complaint from private sector**
- **Request from partner country**
- **Other governmental agency**
- **Own research - Osint**

DNS

Domain Name Service: purpuse to translate domain to Ip and vice versa



Zone File

- CcTLD-DNS-server has a list of all domains
  - -zonefile
- Normally mapping between domain names and IP's
- Textfile with only domain names
- Not provided by the registries

Viewdns.info

- Source?
- On http://viewdns.info/data/ you can buy 52 CcTLD-zonefiles → 500€
- Europol can provides us on a regular base the most recent ones.

studiaresviluppo.it

- Aim: Analysis of the zonefile to find "counterfeit" domain names
    - Script
    - Manually
    - Algorithms (counterfeit.io – Brandanalytic?)

Heel veel televisies.
Naar de keuzehulp
cool blue

ViewDNS.info

Tools | API | Research | **Data**

ViewDNS.info > **Data**

A number of tools provided by ViewDNS.info require significant amounts of backend data. A large proportion of this data has been built in house by ViewDNS.info. In order to help keep the services provided by ViewDNS.info free, we have decided to make some of this data available for download for a small fee. Funds generated from the sale of this data will contribute to the ongoing costs of providing this service, as well as the development of exciting new tools.

ccTLD Zone Files / Domain Name Lists

These files are a must for any serious domainer. As most ccTLD registries do not (or no longer) provide zone file access, these lists are the next best thing available. The files contain lists of registered domain names from a given ccTLD.

Bulk purchase all ccTLD lists - SAVE OVER 50%!!

A combined dataset consisting of all ccTLD lists listed below. This is the combination of ccTLD domain name lists from **52** different countries. Save over 50% compared to combined individual costs!

Note: We separate our lists by country and not by individual zone files. This means that some lists will contain multiple zone files. For example, our .au list contains data from .com.au. .net.au, etc. This means even MORE value for you!

77,638,409 total domains

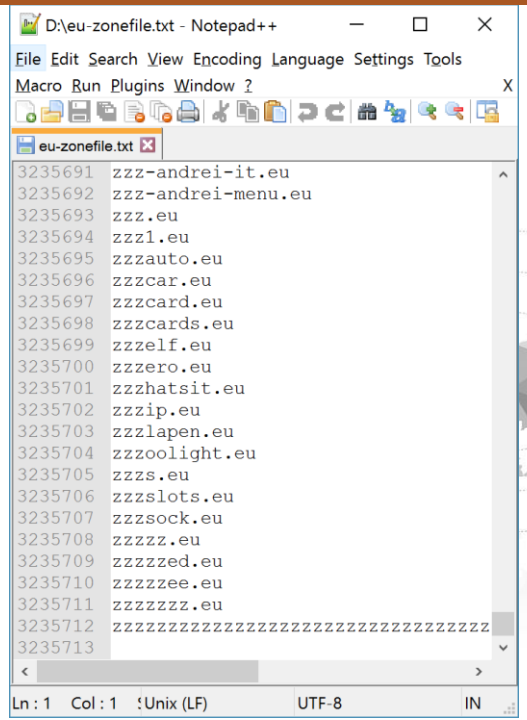
- 327,246 .ar domains
- 1,091,126 .at domains
- 2,199,647 .au domains
- 1,078,261 .be domains
- 1,925,561 .br domains
- 1,935,530 .ca domains
- 1,313,572 .ch domains
- 251,583 .cl domains
- 6,366,940 .cn domains
- 1,838,781 .co domains
- 832,342 .cz domains
- 12,072,140 .de domains
- 834,411 .dk domains
- 1,461,112 .es domains
- 3,235,712 .eu domains
- 2,237,823 .fr domains
- 272,315 .gr domains
- 47,061 .la domains
- 48,357 .ma domains
- 708,856 .me domains
- 511,414 .mx domains
- 127,814 .my domains
- 3,287,550 .nl domains
- 474,214 .no domains
- 529,198 .nz domains
- 902,528 .рФ domains
- 58,741 .pe domains
- 1,482,741 .pl domains
- 192,473 .pt domains
- 422,463 .ro domains
- 66,874 .rs domains
- 5,488,548 .ru domains
- 773,619 .se domains
- 136,108 .sg domains

WAS $998
NOW $498
Save $500 (50%)

BUY NOW!

Terms and conditions

Case Study: .EU



- The “zone file”:
- Plain text (TXT) file
- EU = 3.2 million domains

- How to get this massive list down to a more manageable size?

PowerShell Filter Script

- PowerShell = command line interface and scripting language present in Windows 7 and up

(Alternative on Unix-like systems: bash & grep)

Windows PowerShell ISE

File Edit View Tools Debug Add-ons Help

script.ps1

```
<# zonefile = inputFile.txt, selected strings get written to outputFile.txt #>
$inputFile = "inputFile.txt"
$outputFile = "outputFile.txt"

<# put keywords in filterFile.txt, one per line #>
$filterFile = "filterFile.txt"
$filters = Get-Content $filterFile
Get-Content $inputFile | Select-String -pattern $filters | Out-File $outputFile
```

filterFile.txt

filterFile.txt - Notepad

File Edit Format View Help

```
Adidas
HugoBoss
Vans
Nike
Kickers
Prada
Chanel
Louboutin
Oakley
Delvaux
Puma
Superdry
PacoRabanne
Iphone
Louis Vuitton
Timberland
SamsungGalaxynote
```

- Plain text file (TXT) containing the search terms, one per line
- These terms need to be rather specific

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Magicals words for counterfeit

- Cheap
- Outlet
- Replica
- Fake
- Famous brand
- Luxury
- Sales
- Popular

Running the Script

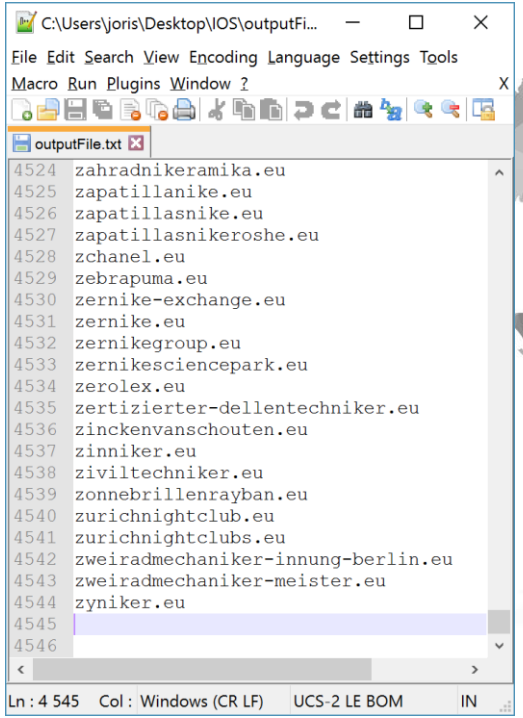
Windows PowerShell

```
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\joris> cd .\Desktop\IOS\
PS C:\Users\joris\Desktop\IOS> .\script.ps1
```

- **The search results are written to a file: `outputFile.txt` (in script directory)**

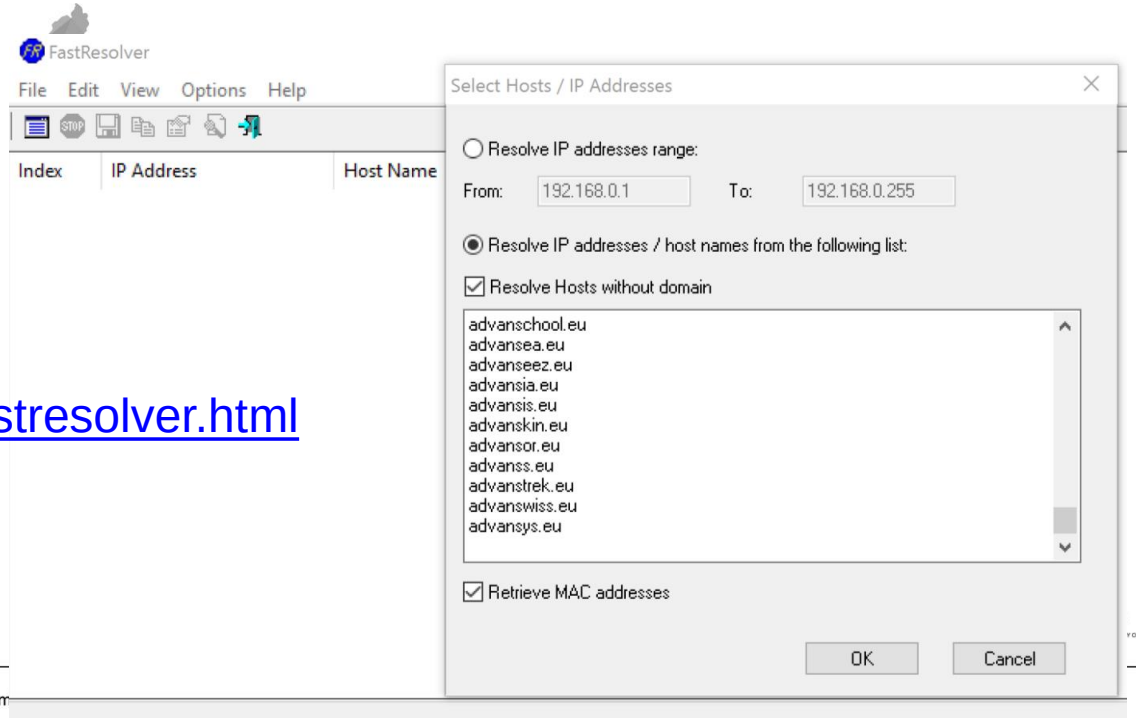
outputFile.txt



- In this case, 4544 domain names remain
- Inevitably, result contains a number of false positives: e.g. `ziviltechNIKEr.eu`

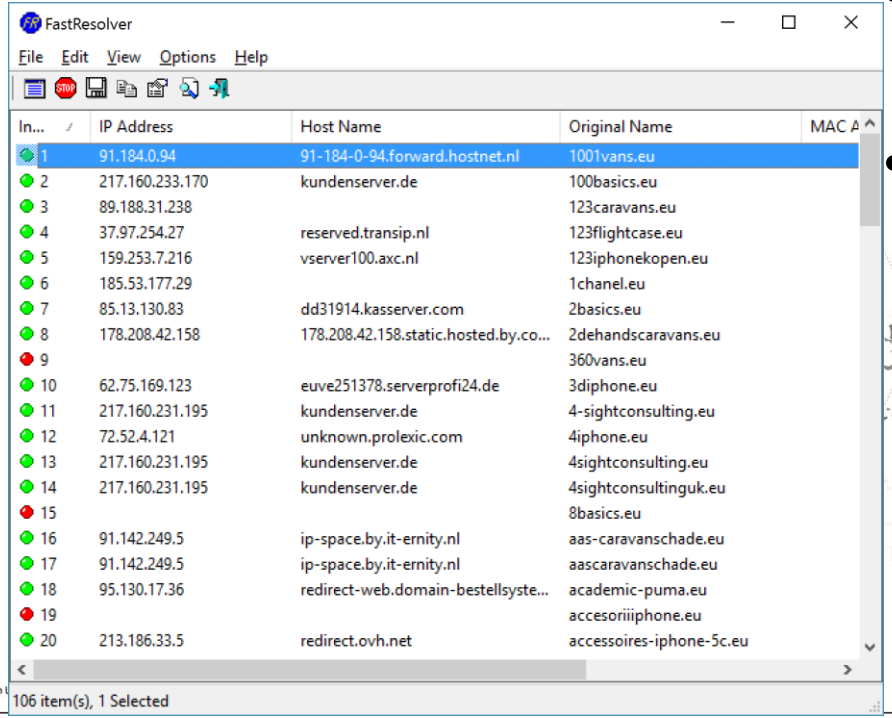
Looking for Active Domains

- **NirSoft FastResolver**



https://www.nirsoft.net/utils/fastresolver.html

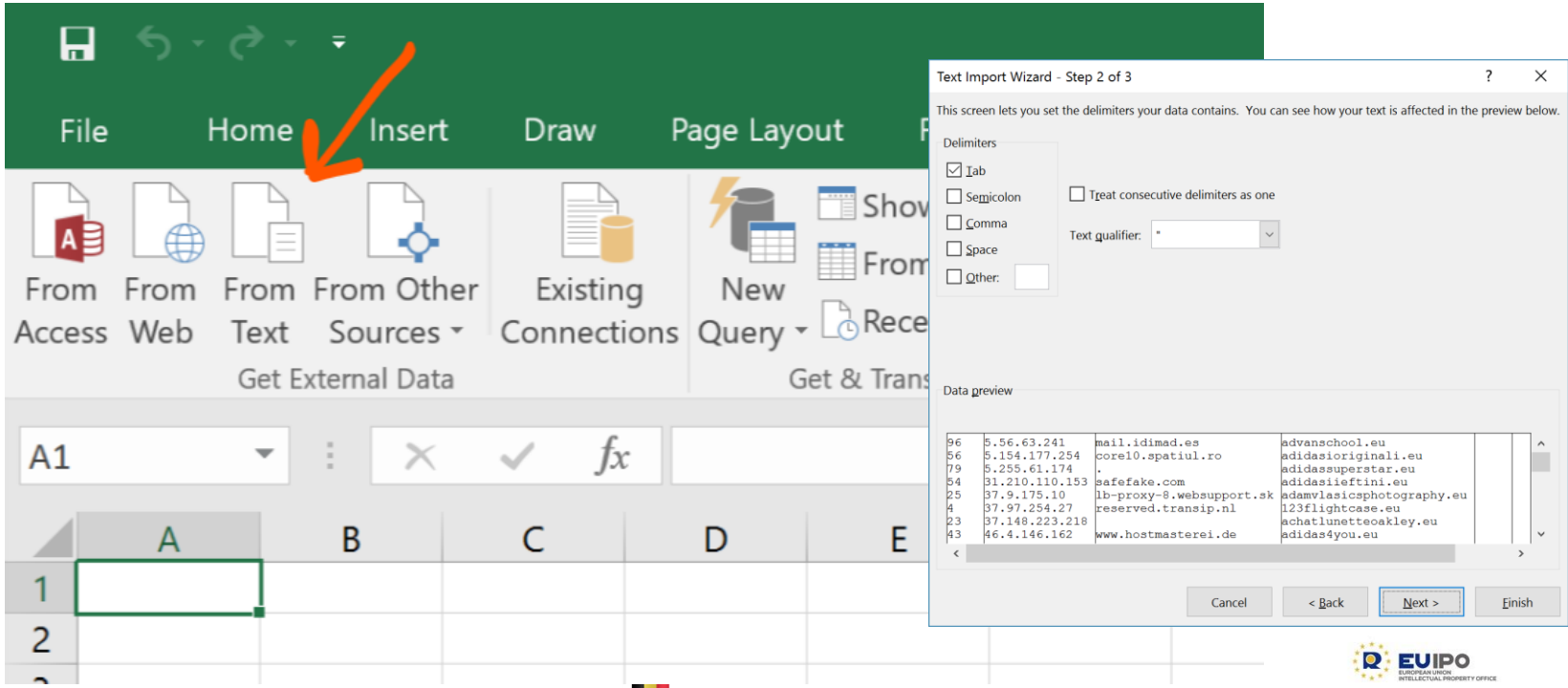
FastResolver Results



In...	IP Address	Host Name	Original Name	MAC A
1	91.184.0.94	91-184-0-94.forward.hostnet.nl	1001vans.eu	
2	217.160.233.170	kundenserver.de	100basics.eu	
3	89.188.31.238		123caravans.eu	
4	37.97.254.27	reserved.transip.nl	123flightcase.eu	
5	159.253.7.216	vserver100.axc.nl	123iphonekopen.eu	
6	185.53.177.29		1chanel.eu	
7	85.13.130.83	dd31914.kasserver.com	2basics.eu	
8	178.208.42.158	178.208.42.158.static.hosted.by.co...	2dehandscaravans.eu	
9			360vans.eu	
10	62.75.169.123	euve251378.serverprofi24.de	3diphone.eu	
11	217.160.231.195	kundenserver.de	4-sightconsulting.eu	
12	72.52.4.121	unknown.prolexic.com	4iphone.eu	
13	217.160.231.195	kundenserver.de	4sightconsulting.eu	
14	217.160.231.195	kundenserver.de	4sightconsultinguk.eu	
15			8basics.eu	
16	91.142.249.5	ip-space.by.it-ernity.nl	aas-caravanschade.eu	
17	91.142.249.5	ip-space.by.it-ernity.nl	aascaravanschade.eu	
18	95.130.17.36	redirect-web.domain-bestellsyste...	academic-puma.eu	
19			accesoriiiphone.eu	
20	213.186.33.5	redirect.ovh.net	accessoires-iphone-5c.eu	

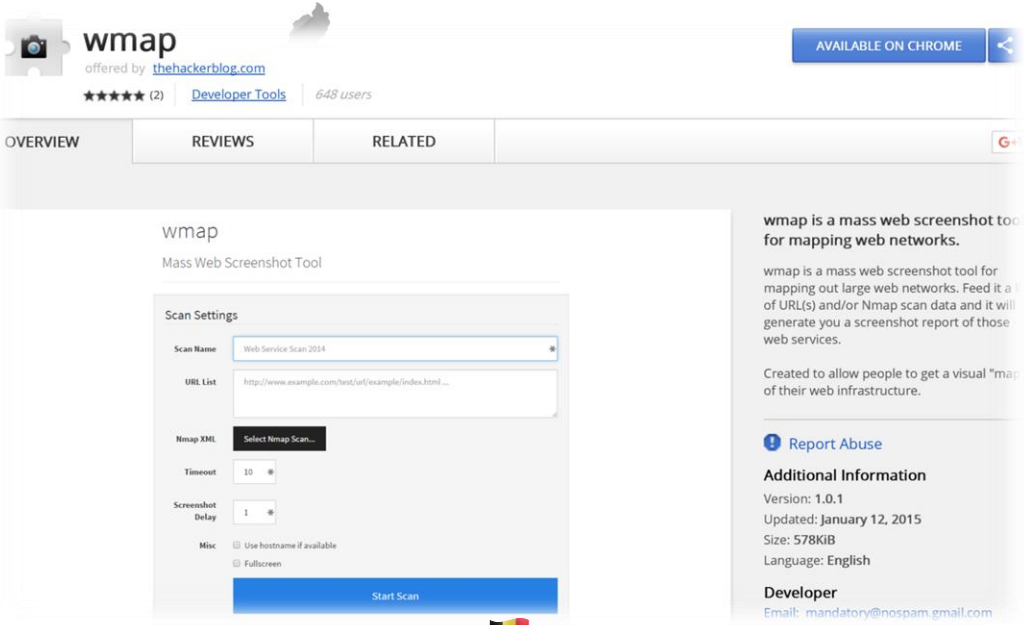
- Green light indicates active website
- You can sort these results by IP address or host name, putting possibly related websites together

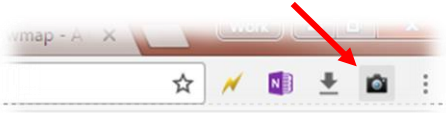
Extracting List of Domains



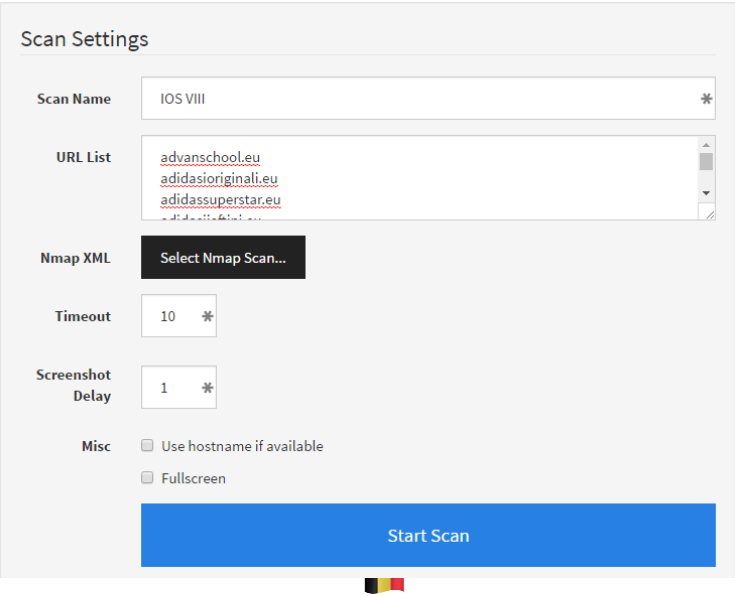
Taking Screenshots in Bulk

- **wmap: Mass Web Screenshot Tool (Google Chrome)**





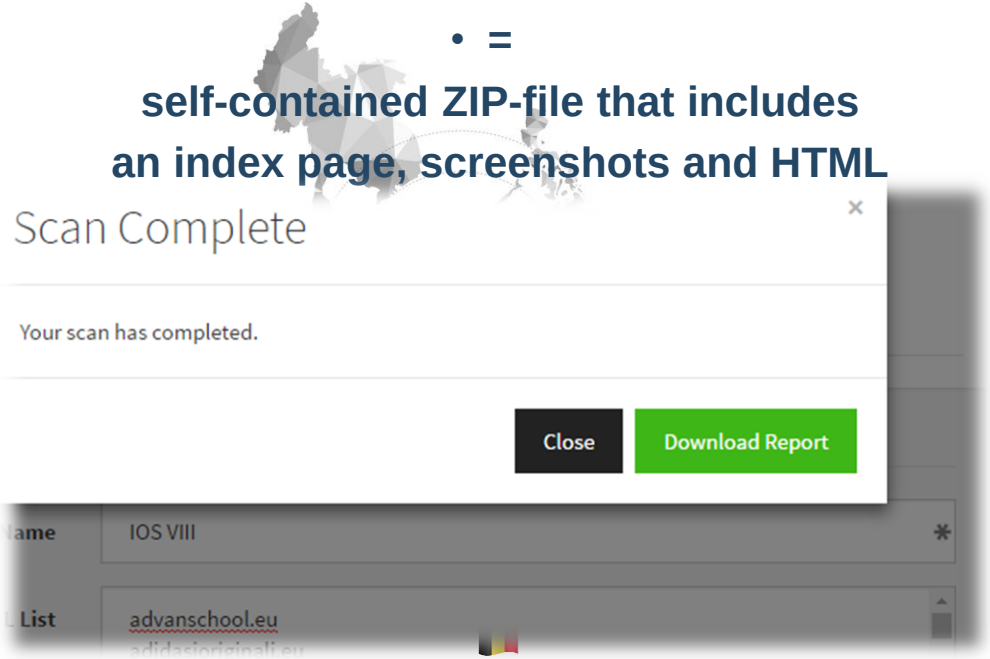
wmap Configuration



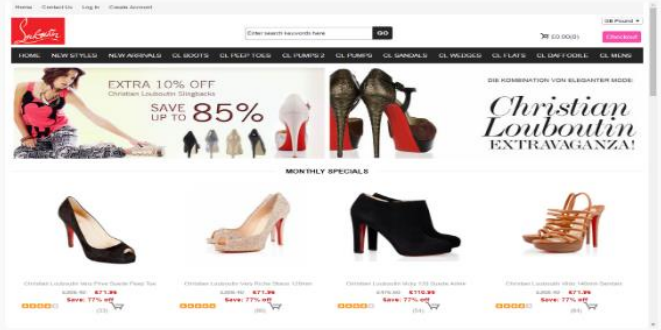
Downloading the Report

- “Download Report”
- =

self-contained ZIP-file that includes
an index page, screenshots and HTML



Wmap-generated Report

22		http://www.xn--kreissparkassewiedenbrck-htc.eu	Internet-Filiale - Kreissparkasse Wiedenbrück	Cookies	HTML
23	An error occured while taking this screenshot.	http://www.foresightconcepts.eu	N/A	N/A	N/A
24		http://www.christianlouboutin-boutique.eu	Christian Louboutin Sale	Cookies	HTML

Bulk Alexa Rank Checker

- "Find Alexa rank of 500 domains in a flash"
- = metric that ranks websites in order of popularity

Free web tool: https://www.alexarankchecker.com/index.php

Input list. You may input domains in any format (max 500 domains) (Total domains: 81)

```
admiphone.eu
advans-group.eu
adidas-chaussures.eu
adidasschoenen.eu
adidassneakers.eu
advansia.eu
adidaspartner.eu
4-sightconsulting.eu
4sightconsulting.eu
4sightconsultinguk.eu
```

Copy Excel CSV PDF Search...

S.NO.	URL	Reach	Global Rank	Local Rank	Country
1	standaard.be	11449	11566	46	Belgium
2	nieuwsblad.be	5430	5095	14	Belgium

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Operation POSTBOX II (2019)

FREDERICK VANNESTE | ONLINE | 26/10/2021
EU EXPERT | BELGIAN CUSTOMS | INVESTIGATIONS

Funded by the European Union

EUIPO EUROPEAN UNION INTELLECTUAL PROPERTY OFFICE

Directed by the European Commission, IP Key South-east Asia is implemented by the European Union Intellectual Property Office (EUIPO)

JCO POSTBOX II (28/2 – 29/3/2019)

- **Organisation & Coordination**
  - C@IC (Customs Against Internet Crime) of the CCWP → leaded by BE
  - OLAF 22 MS + OLAF + EUROPOL

Customs @gainst Internet Crime

OLAF EUROPEAN ANTI-FRAUD OFFICE

Council of the European Union

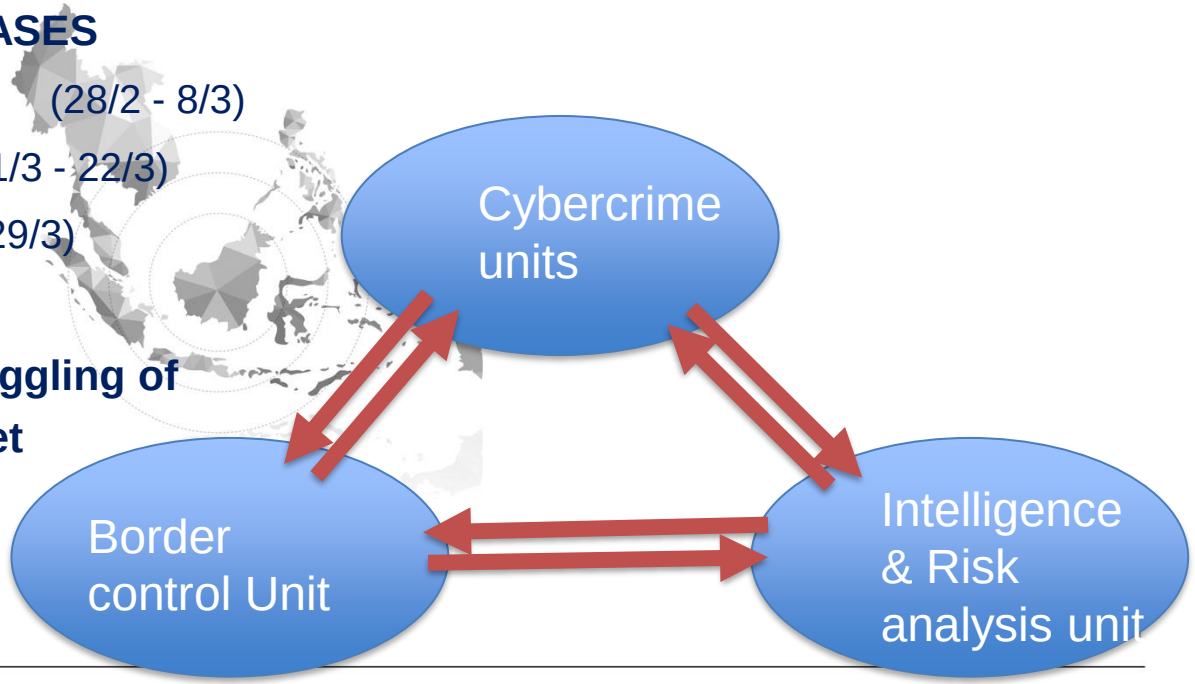
Customs Cooperation working party

EUIPO EUROPEAN UNION INTELLECTUAL PROPERTY OFFICE

SCOPE

- **JCO between cybercrime related Customs divisions → 3 PHASES**
  I. Risk analysis / intelligence (28/2 - 8/3)
  II. Border control (11/3 - 22/3)
  III. Cyberpatrol (25/3 - 29/3)

- **SCOPE: Combat illegal smuggling of goods bought on the internet**
  – Priority 1: **Counterfeit**
  – Priority II: **Cites**
  – Secondary: **Narcotics**



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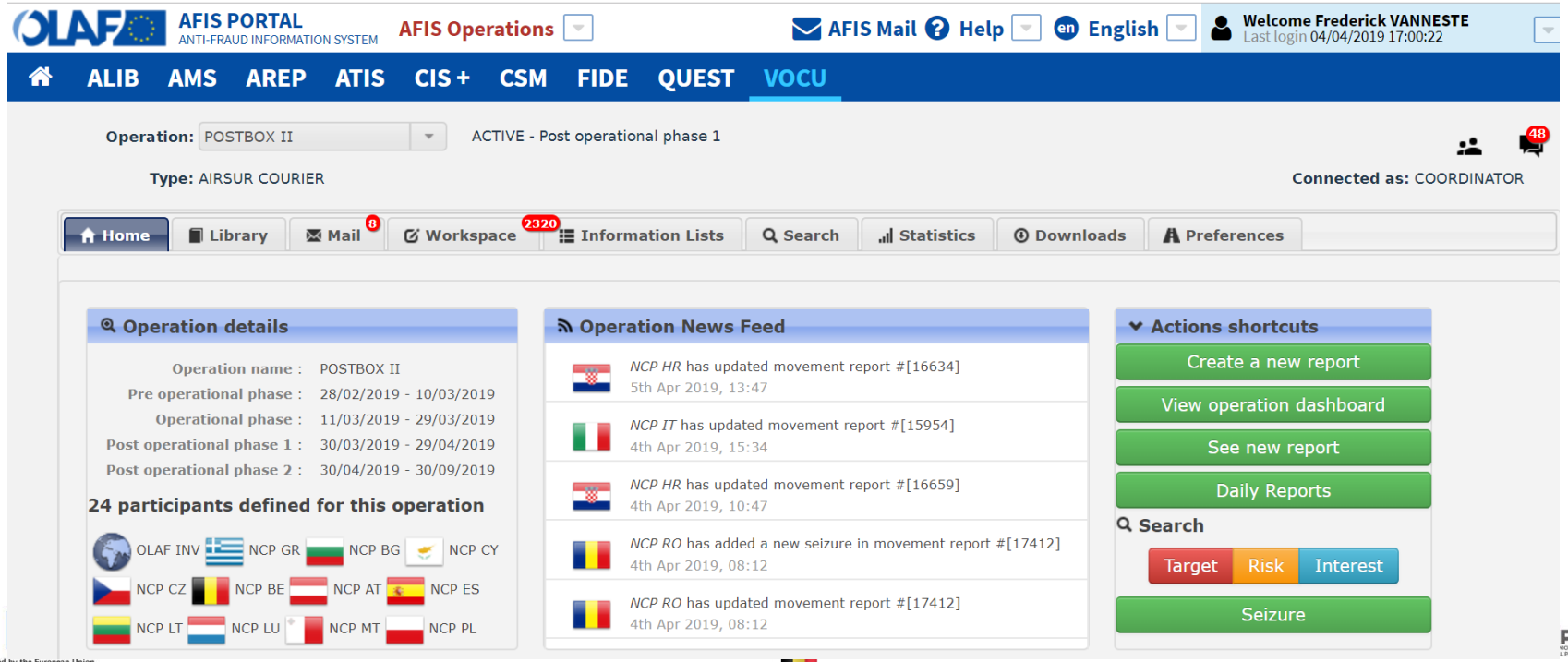
Phases of Postbox II

VOCU & AFIS


AFIS PORTAL
ANTI-FRAUD INFORMATION SYSTEM
AFIS Operations
AFIS Mail
Help
English
Welcome Frederick VANNESTE
Last login 04/04/2019 17:00:22
ALIB AMS AREP ATIS CIS + CSM FIDE QUEST VOCU
Operation: POSTBOX II
ACTIVE - Post operational phase 1
Type: AIRSUR COURIER
Connected as: COORDINATOR
Home
Library
Mail
Workspace
Information Lists
Search
Statistics
Downloads
Preferences
Operation details
Operation name : POSTBOX II
Pre operational phase : 28/02/2019 - 10/03/2019
Operational phase : 11/03/2019 - 29/03/2019
Post operational phase 1 : 30/03/2019 - 29/04/2019
Post operational phase 2 : 30/04/2019 - 30/09/2019
24 participants defined for this operation
OLAF INV
NCP GR
NCP BG
NCP CY
NCP CZ
NCP BE
NCP AT
NCP ES
NCP LT
NCP LU
NCP MT
NCP PL
Operation News Feed
NCP HR has updated movement report #[16634]
5th Apr 2019, 13:47
NCP IT has updated movement report #[15954]
4th Apr 2019, 15:34
NCP HR has updated movement report #[16659]
4th Apr 2019, 10:47
NCP RO has added a new seizure in movement report #[17412]
4th Apr 2019, 08:12
NCP RO has updated movement report #[17412]
4th Apr 2019, 08:12
Actions shortcuts
Create a new report
View operation dashboard
See new report
Daily Reports
Search
Target
Risk
Interest
Seizure
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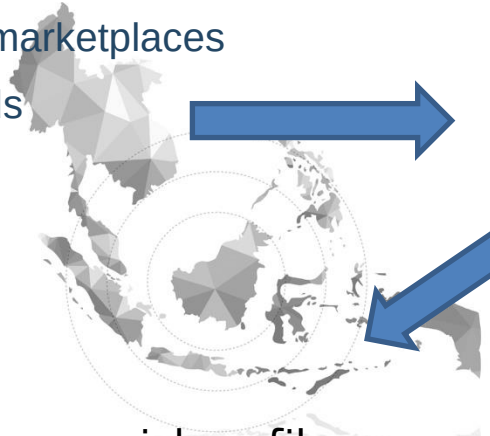
Phase I: Intelligence & Risk analysis

- **Monitoring internet:**
  - Products offered on online marketplaces
  - New trends – popular brands
  - Social media analysis
- **Analysis old seizures**



83 National profiles shared via VOCU in AFIS

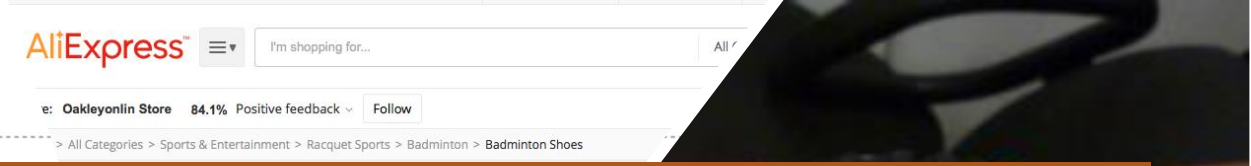
JCO POSTBOX II – Risk profile

GENERAL				TYPE OF MOVEMENT	☐ Import ☐ Export ☒ Transit
Risk analysis level	☒ European risk profile (EP) ☐ National risk profile (NP)				
Profile number	EP	Coordinator	N° 4		
Goods category	CITES				
Risk category	Hippocampus spp				
Legislation	Convention on International Trade in endangered species of wild fauna and flora; Council Regulation (EC) No 338/97 of 9 December 1996; COMMISSION REGULATION (EC) No 865/2006 of 4 May 2006				
INDICATORS	DECLARED			FOUND / HIGH RISK / TREND	
Description of the goods	Fish (or smoked fish), fish scales, smoked food, samples etc.			Seahorses	

→30 European riskprofiles
→In VOCU reports linked profiles

phase II: Control

- **2320 reports in VOCU**
  - Detailed reports with photos & modus operandi
  - First time > 1000 seizures in VOCU AFIS
- **2 Field visits**
- **Best seizures selected for cyberpatrol**
  - Multiple simular seizures in different MS.
  - Info about the website
  - Logos (XTC pills, merchandaising, …)
  - 50 CASES prepared



Case 1: Direct Link

- **Shipper/Sender: Direct Link, Malmo SE (CN)**
- **Seizures: >30 in BE and HR**
- **Website: Aliexpress**

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Case 2: DAIBO

- **Shipper/sender: DAIBO, CN**
- **Seizures: >15 in BE; IT; LU; ES; PT; PL**
- **Website: Aliexpress**

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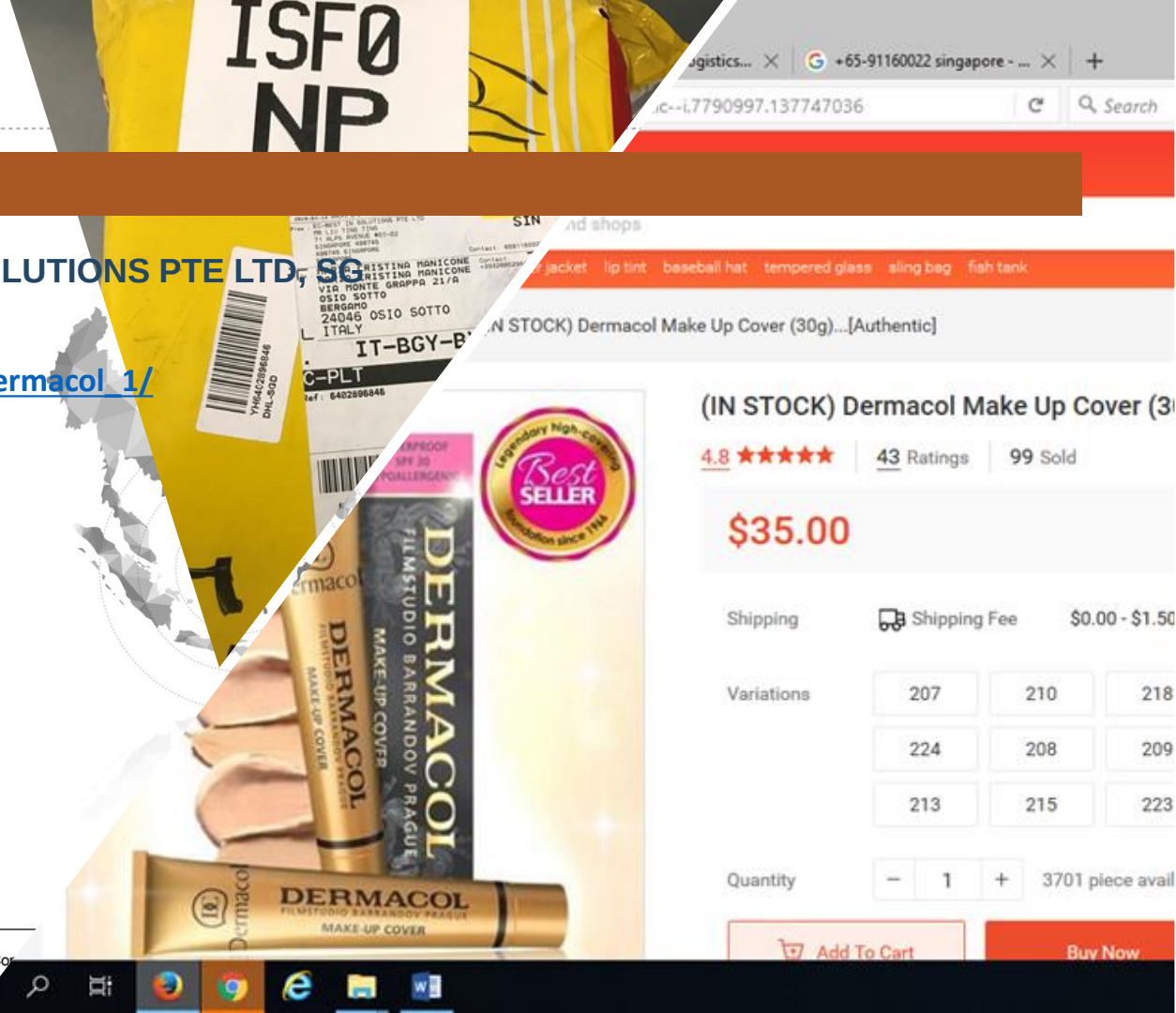
Case 5: Car Parts

- **Shipper/sender: CUI HAOMAI, CN**
- **Seizures: 1 Greece**
- **Website: Alibaba**
- **Reselling Greece: https://oil-stores.car.gr/parts/**

Case 21: MAKE UP Dermacol

- **Shipper/sender: EC BEST IN SOLUTIONS PTE LTD, SG**
- **Seizures: 4 in Italy**
- **Website: https://www.lazada.sg/dermacol_1/**



Cyberpatrol: CONCEPT

- Presence of specialists from around Europe
- Different areas of expertise: Cites, Counterfeit, Drugs, Osint, Cryptocurrencies, Financing…
- Research on Darknet and surface web
- SYNERGY!
- One operational room with specialists (20), one management room with coordinators (10)
- Mobile support between the rooms for liason purposes (Europol, Police, Central offices,...)

Phase III: Cyberpatrol

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Conclusions

- **Very successful operation**
  - 2300 reports of seizures
  - Shared knowledge
- **Most counterfeit is sold on ALIBABA platforms**
- **Chinese e-commerce via Air cargo to post centers Europe and reposted (not under rules UPU)**
  - Big problem in Malmo (SE) and Zaventem (blue bags)
  - Abuse exception low value, under evaluation, counterfeit & weapons

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THANK YOU

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@IPKey_EU