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ICANN At Large - EURALO

DNS Abuse

Presentation of isTrust tool



Frederic Taes

Internet Society Belgium Chapter

Member ICANN At-Large - EURALO

frederic.taes@isoc.be

DNS Abuse & isTrust

- Project motivation
- isTrust in a nutshell
- Demo
- Next steps & challenges



Project motivation





isTrust – Project motivation

Our ALS wanted to contribute to the global effort for a better Internet, by offering a tool that addresses the priorities of Internet users.

In our understanding, those priorities are, in this order:

1. Access to the Internet
2. Security, Privacy and Trust
3. Content related & services

Our participation to ICANN70 was a source of inspiration for us.

ICANN70 (March 2021) – confirmed by ICANN72...



DNS abuse

There was a sense of frustration amongst the members of the ICANN community who were present at the ICANN70 meeting when it comes to tackling the issue of DNS abuse. Several constituencies, including the GAC, ALAC and BC expressed their (...) of DNS abuse recommendations within the SubPro

Source: [CENTR Report on ICANN70](#)

DNS Abuse Remains #1 Public Safety Priority

Source: gac.icann.org

ICANN | GAC
Governmental Advisory Committee

DNS abuse: more needs to be done

The headline message from ICANN 70 regarding DNS abuse is that ICANN and contracted parties are not doing enough to combat abuse. Comments of this nature were heard repeatedly throughout the meeting, including in Governmental Advisory Committee (GAC) sessions on DNS abuse, in discussions between commercial stakeholders and contracted parties, and in the ICANN 70 public forum, among other sessions.

Source: [WorldTrademarkReview](https://WorldTrademarkReview.com)



DNS Abuse : definition

How to address malicious use of domain names, broadly referred to as Domain Name System (DNS) abuse, is a topic of great interest and discussion.

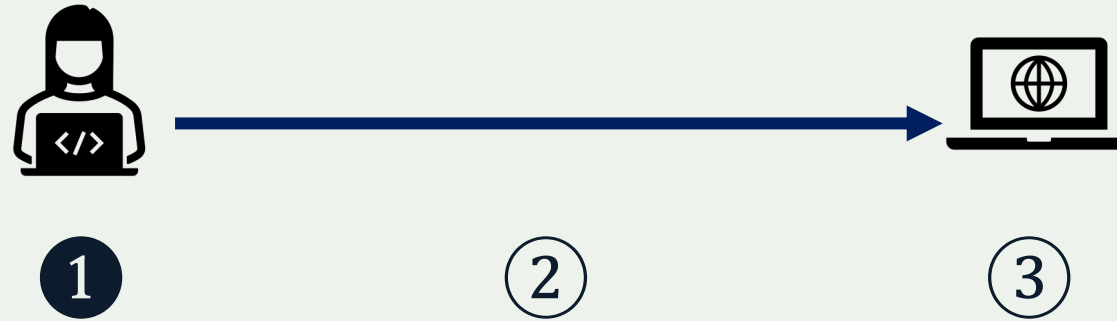
DNS security threats include five broad categories of harmful activity:

- Botnets
- Malware
- Pharming
- Phishing
- Spam (as it is used to propagate other DNS security threats).

isTrust



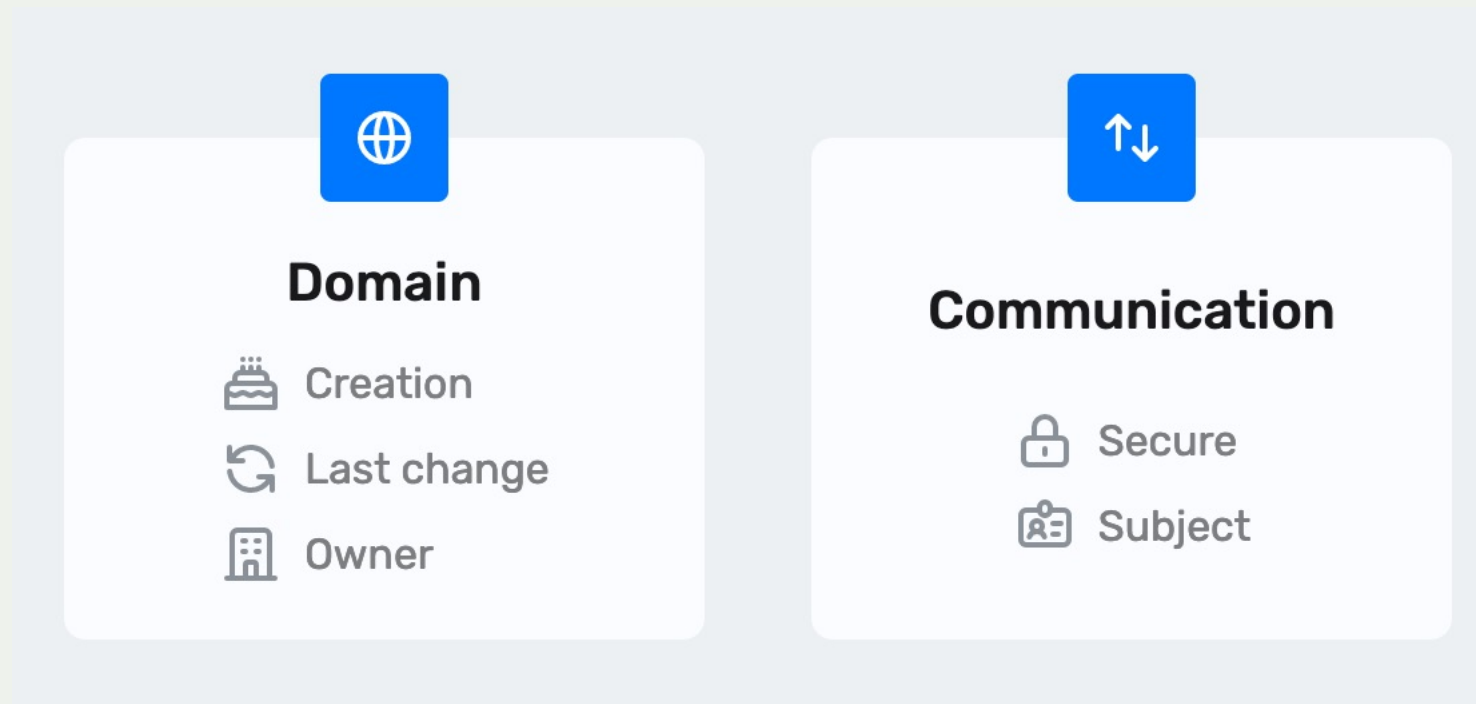
isTrust : a complimentary approach



- 1) isTrust addresses DNS Abuse from an end-user perspective
- 2) isTrust relies on other initiatives, such as DNSSEC
- 3) isTrust does not replace initiatives to secure web or email servers

isTrust minimum viable product

A website looks suspicious ? Find out by checking, from your web browser :



isTrust



isTrust browser add-on is :

- Freeware
 - Data Privacy by design
 - Open Source (copyleft license)
 - Published on Mozilla Firefox, Google Chrome, Microsoft Edge, Apple Safari (soon)
 - Multilingual by design (currently: English, French, Dutch)
-
- Current version supports all gTLDs and a few ccTLDs

isTrust : demonstration



Example 1 : a website you can trust for sure, and another one



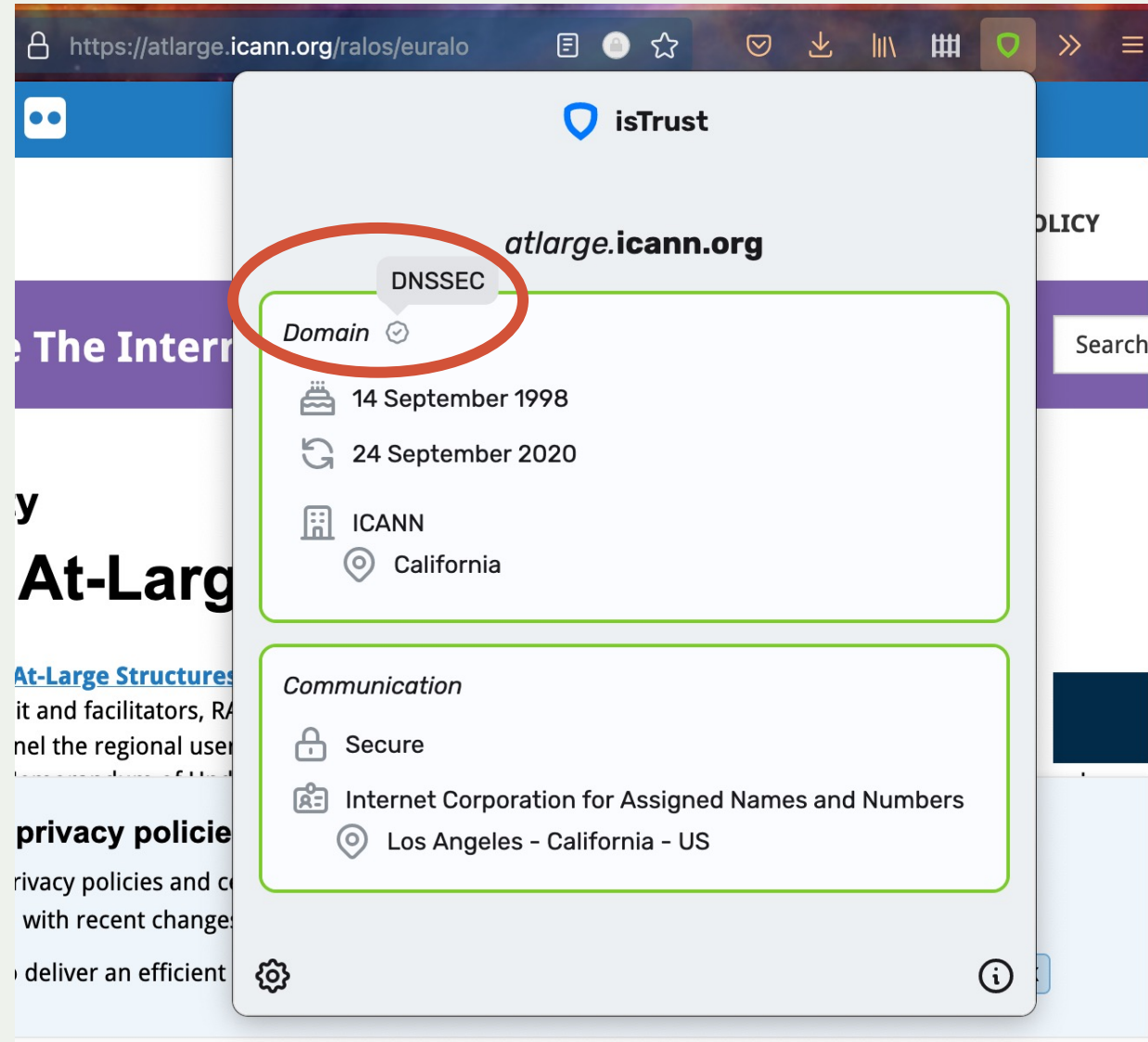
The screenshot shows the Belgium.be website in a browser. An isTrust security overlay is displayed, providing the following information:

- Domain:**
 - 22 March 1995
 - 25 May 2021
 - FOD Kanselarij van de Eerste Minister
- Security:**
 - Communication secured
 - Federale Overheidsdienst Beleid en Ondersteuning

The screenshot shows the EU Business Register website in a browser. An isTrust security overlay is displayed, providing the following information:

- Domain:**
 - 13 May 2019
 - No organisation
- Security:**
 - http → https

Example 2 : EURALO website – confirmed with DNSSEC



isTrust

atlarge.icann.org

DNSSEC

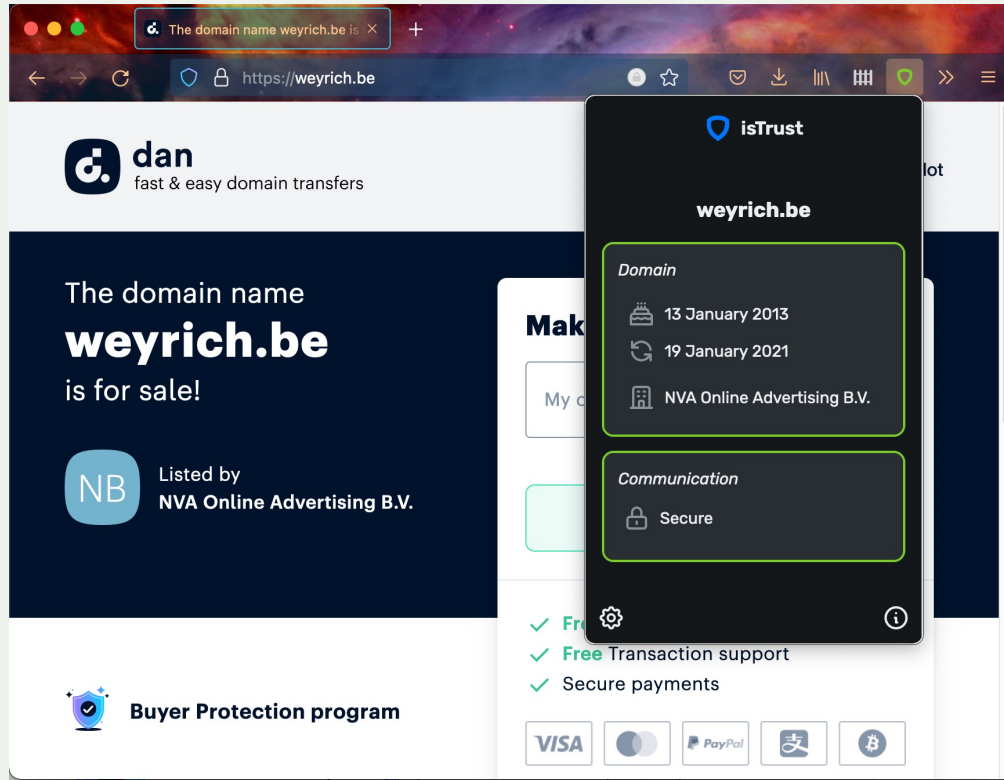
Domain ✓

- 14 September 1998
- 24 September 2020
- ICANN
- California

Communication

- Secure
- Internet Corporation for Assigned Names and Numbers
- Los Angeles - California - US

Example 3 : Also useful for domain name holders



Typical case: the marketing agency registers a website for his customer... but putting himself as “domain owner”.

This can later lead to issues...

Example 4 : Many fake websites hidden behind third parties



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AJOUTER AU PANIER

isTrust

kiawis.com

Domaine

- 📅 30 novembre 2021
- 🔄 30 novembre 2021
- 🏢 Whois Privacy Corp.
- 📍 Nassau - New Providence - BAHAMAS

Communication

- 🔒 Securisée

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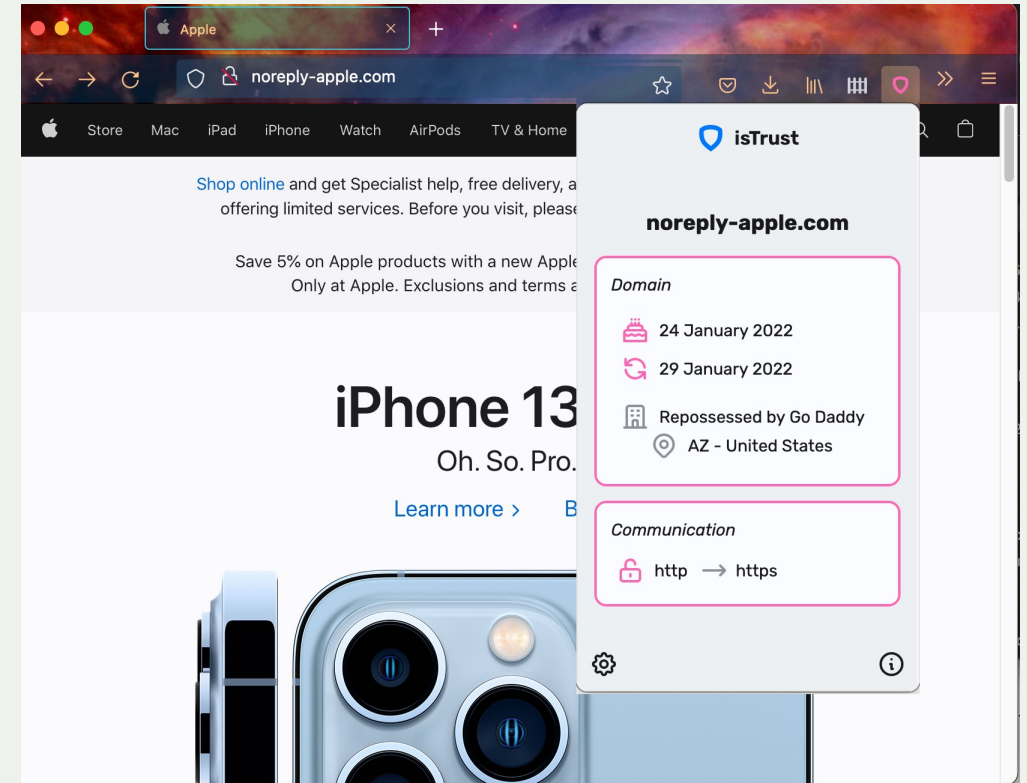
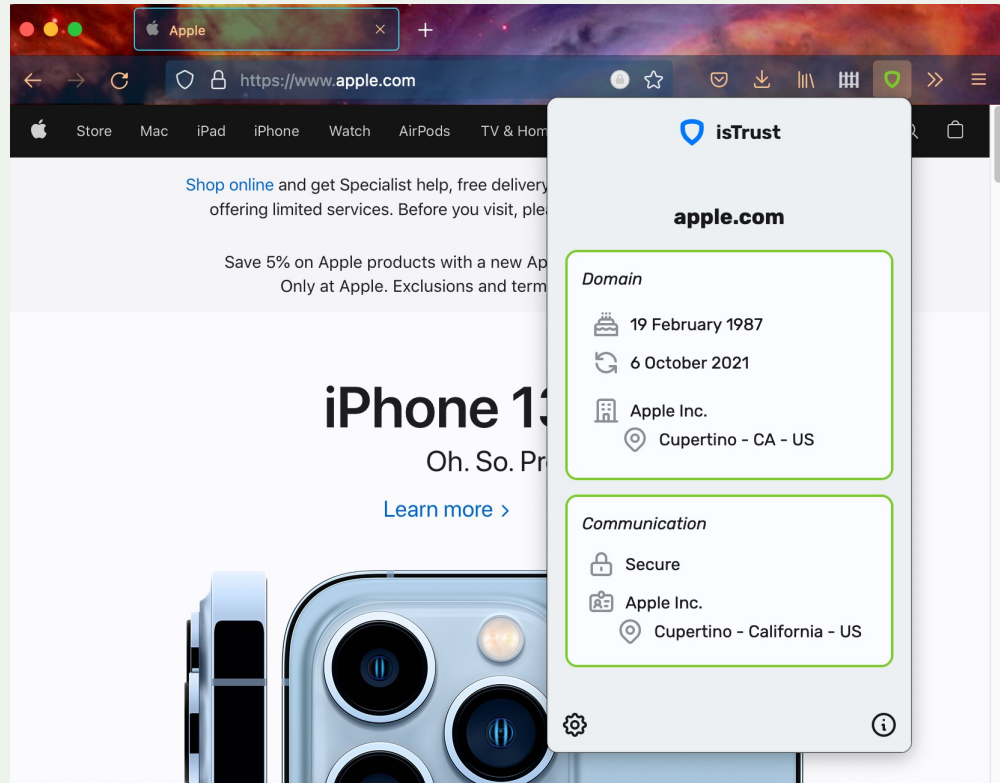
Domaine

- 📅 6 janvier 2022
- 🔄 6 janvier 2022
- 🏢 Pas d'organisation

Communication

- 🔒 Securisée

Example 5 : phishing & pharming



Next steps & challenges





Next steps : some ideas

- Engage users to play an active role in fighting DNS Abuse, as by using isTrust
- Get more ccTLDs onboarded (example: .fr - France)
- Convince companies that sharing Internet domain identity can only build trust
- Promote DNSSEC

- isTrust extensions:
 - Support more ccTLDs
 - More languages (RU, ES...)
 - Support for mobiles and emails
 - Find similar names (typo squatting)
 - Link to other directories (ex: CBE PUBLIC SEARCH in Belgium)
 - ...

www.istrust.org



NEW RELEASE

v3.9.0 - 32 days ago

isTrust

Verify the trustability of any website



Get the add-on





(Fair)

Question or Feedback

Always welcome



REPOSITORIES

Public search of the Crossroads Bank for Enterprises

Idea: promote companies to mention a web address, and add a search on domain name.

The screenshot shows the CBE Public Search interface. The browser address bar displays 'https://kbopub.e...'. The page header includes the CBE logo and navigation links: Home | News | Info Public Search | Info CBE | Disclaimer | Contact. Below the header is a navigation menu with options: 'New search by number' (highlighted in red), 'New search by name', 'New search by activity', 'New search by authorisation', and 'New search by address'. A disclaimer states: 'The English version of the Public Search application constitutes an unofficial English translation and is provided for information purposes only. No legal rights can therefore be derived from this translation. For the official application, please consult the Dutch, French or German versions of the Public Search application.'

The main content area is titled 'Registered entity data' and contains a table with the following information:

In general	
Enterprise number:	0896.915.844
Status:	Active
Legal situation:	Normal situation Since April 3, 2008
Start date:	April 3, 2008
Name:	Internet Corporation for Assigned Names and Numbers Name in Dutch, since February 1, 2005
Abbreviation:	ICANN Name in Dutch, since February 1, 2005
Registered seat's address:	SUITE 300,E. WATERFRONT DRIVE 12025 90094 LOS ANGELES, CALIFORNIA Etats-Unis d'Amérique Since June 24, 2017
Phone number:	0013108239358 Since June 24, 2017 ⁽¹⁾
Fax:	0013108238649 Since June 24, 2017 ⁽¹⁾
Email address:	No data included in CBE.
Web Address:	No data included in CBE.

Merci.



www.internetsociety.be

Frédéric Taes

President ISOC.be

frederic.taes@isoc.be

Rue Vallin 2
CH-1201 Geneva
Switzerland

Rambla Republica de Mexico 6125
11000 Montevideo,
Uruguay

Science Park 400
1098 XH Amsterdam
Netherlands

11710 Plaza America Drive
Suite 400
Reston, VA 20190, USA

66 Centrepoint Drive
Nepean, Ontario, K2G 6J5
Canada

3 Temasek Avenue, Level 21
Centennial Tower
Singapore 039190

internetsociety.org
@internetsociety

