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

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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.

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

DNS Abuse Remains #1 Public Safety Priority

Source: gac.icann.org

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: 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

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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.
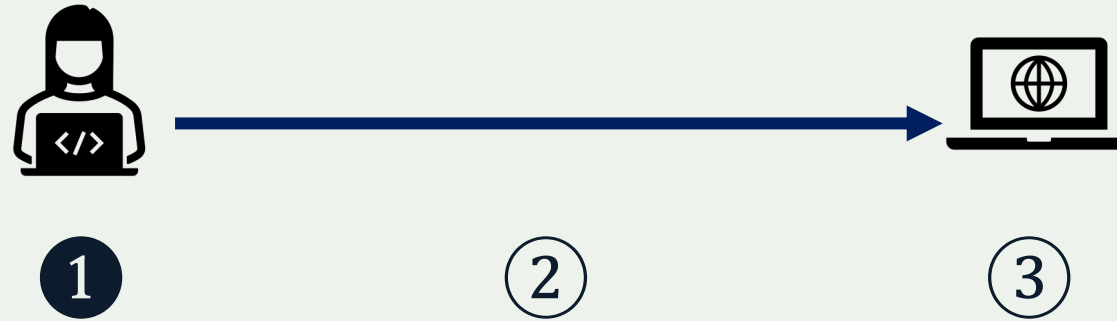
DNS security threats include five broad categories of harmful activity:
- Botnets
- Malware
- Pharming
- Phishing
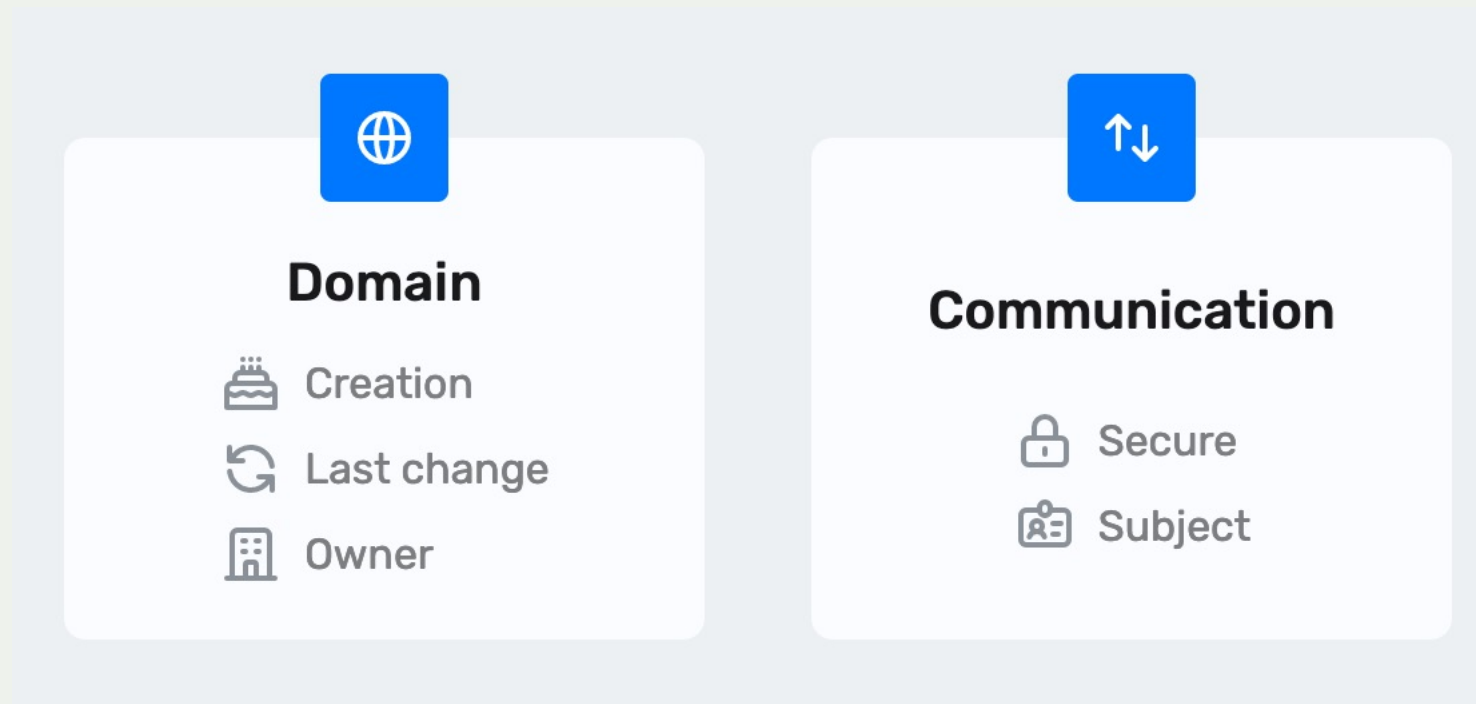- Spam (as it is used to propagate other DNS security threats).

Source: https://www.icann.org/dnsabuse

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

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isTrust minimum viable product

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

🌐 Domain
- 🎂 Creation
- 🔄 Last change
- 🏢 Owner

⇅ Communication
- 🔒 Secure
- 📇 Subject

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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 : demonstation

Example 1 : a website you can trust for sure, and another one
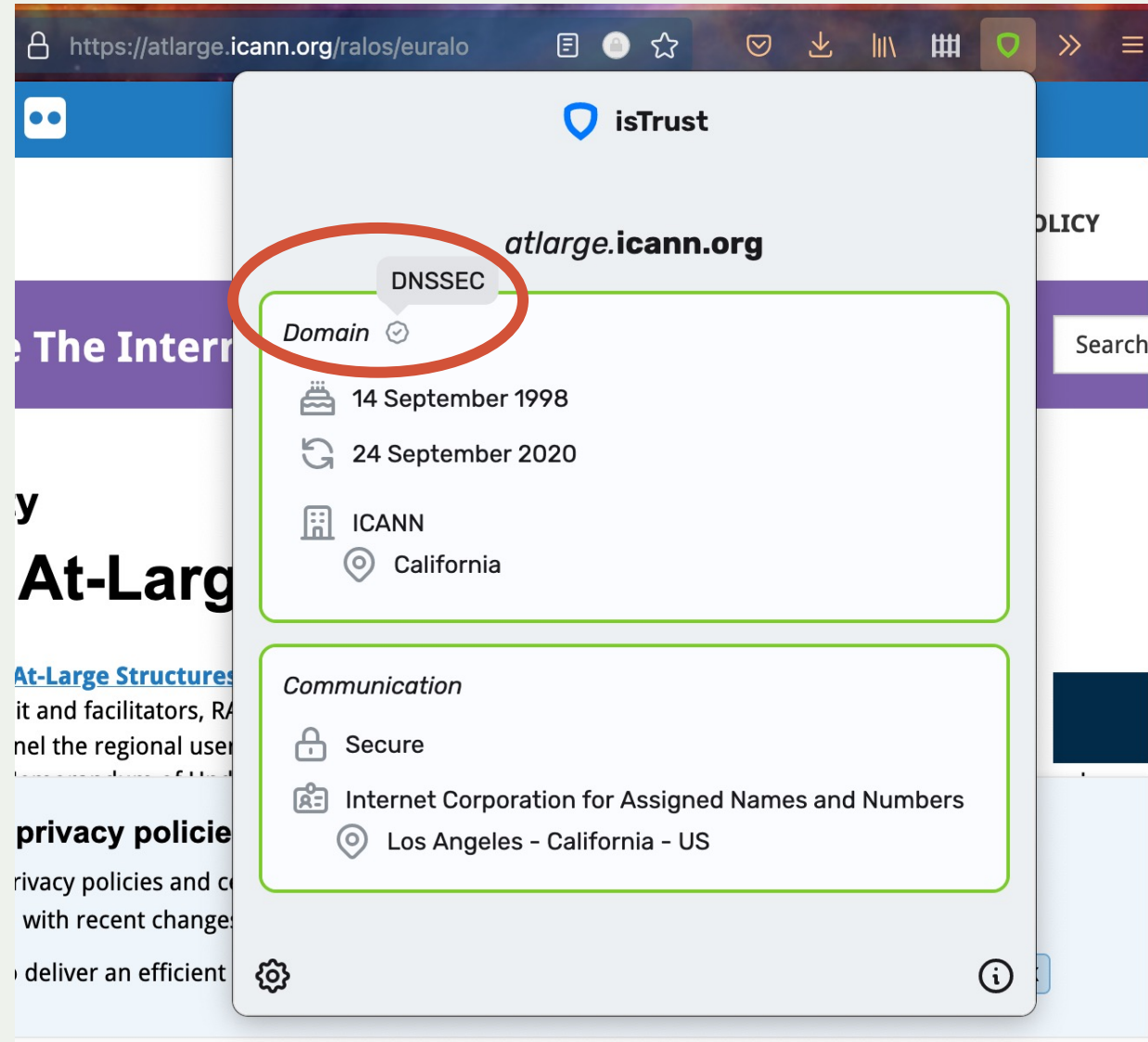
Example 2 : EURALO website – confirmed with DNSSEC

Example 3 : Also useful for domain name holders
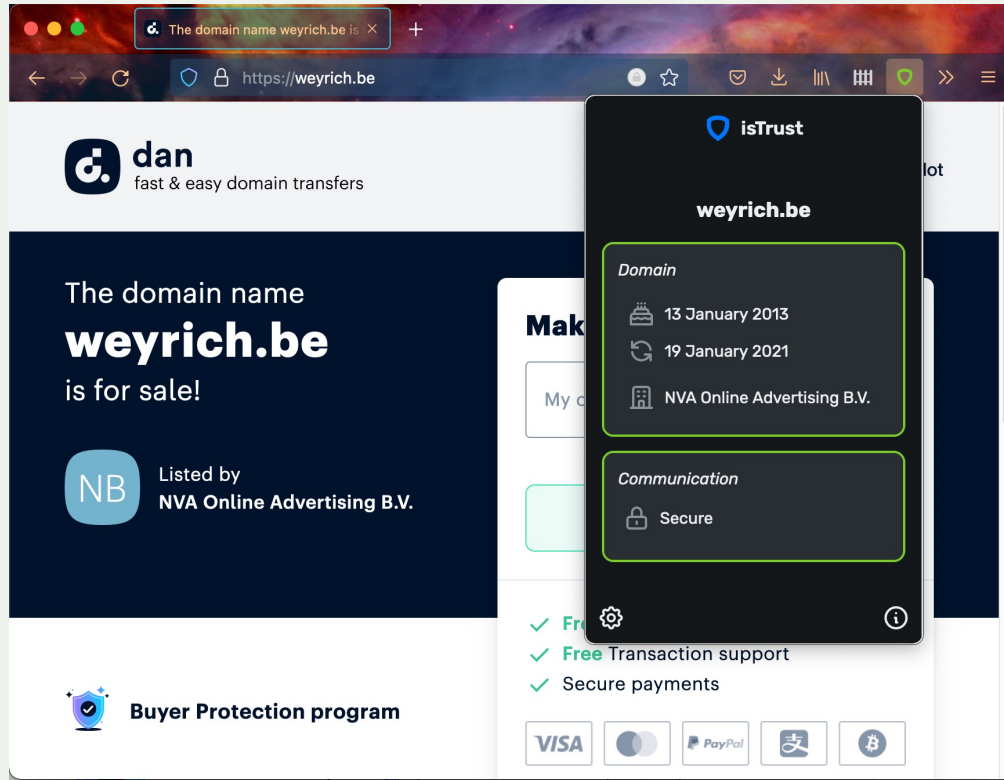
Typical case: the marketing agency registers a website for his customer… but putting himself as "domain owner".

This can later lead to issues...

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Example 4 : Many fake websites hidden behind third parties

Example 5 : phishing & pharming
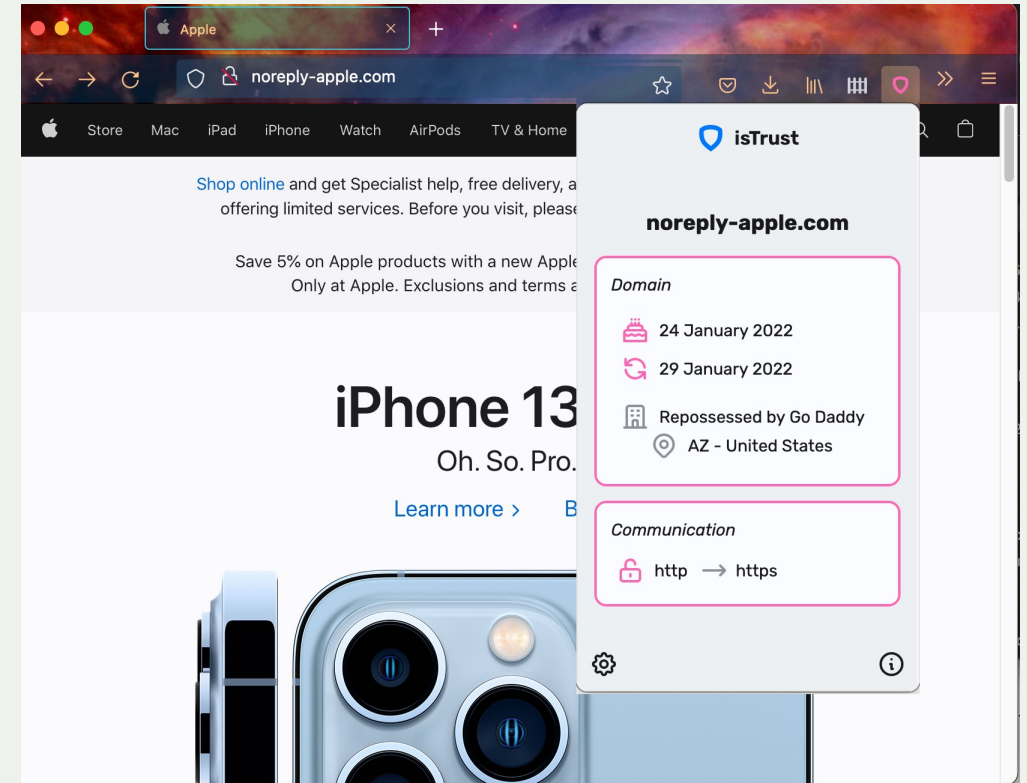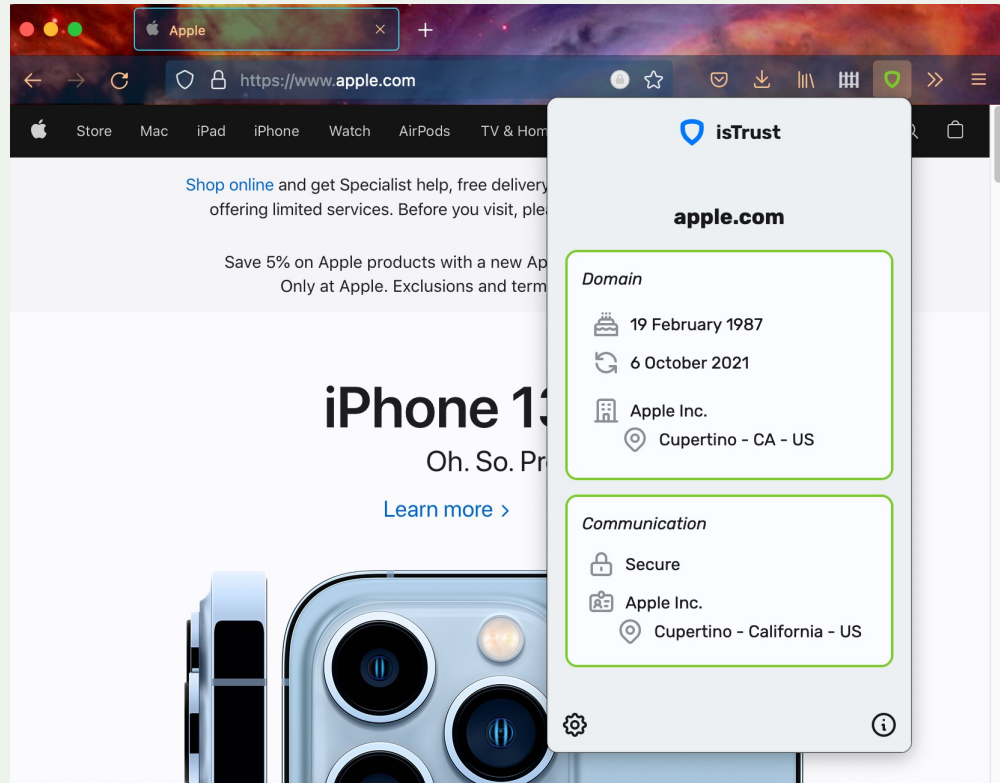
Next steps & challenges

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)
  - ...

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www.istrust.org

(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.

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Merci.

www.internetsociety.be
Frédéric Taes
President ISOC.be
frederic.taes@isoc.be

Rue Vallin 2
CH-1201 Geneva
Switzerland

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

Rambla Republica de Mexico 6125
11000 Montevideo,
Uruguay

66 Centrepoint Drive
Nepean, Ontario, K2G 6J5
Canada

Science Park 400
1098 XH Amsterdam
Netherlands

3 Temasek Avenue, Level 21
Centennial Tower
Singapore 039190

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@internetsociety