

# Report for ccNSO Council

vTechDay at ICANN 73

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## Abstract

This was the 47<sup>th</sup> TechDay organized by the ccNSO's Technical Working Group. It was a virtual meeting conducted entirely in the Webinar format using Zoom. As usual we had a mixed selection of topics and speakers. Predominant were DNS Abuse related topics but also technical ones such as DNS analytics.

## 1 Opening Remarks: [Lisse](#)

## 2 Preventative Approaches: [Bunton](#)

Graeme Bunton talked about the work to fight against DNS abuse and the way to stop various frauds. A particular focus was made on preventative steps to be taken by registrars to stop the creation of fraudulent domain names before they are sent to the registries.

## 3 DNS Core Census: [Lewis](#)

Edward Lewis from ICANN made an update on DNS Core Census, already presented during the last TechDay session. The goal is to collect public DNS data from ccTLDs, gTLDs and so on to conduct analysis and better understand the DNS architecture and its specificities. Data sets are now available for use as well as a set of tools, and links were provided.

#### **4 [rssac002.root-servers.org](https://rssac002.root-servers.org): McConachie**

Andrew McConachie from ICANN presented the website and API for tracking DNS activity on root servers. Five years of data allow to have a good vision of the usual uses and of some evolutions like corrections or short attacks. A particular focus was made on the Chromium browser during the presentation (which is the foundation of a number of browsers and was responsible for a large percentage of root server queries, prior to a redesign of the browser software).

#### **5 PSD DMARC: [Schwartz](#)**

Craig Schwartz, whose company operates multiple gTLDs, showed us how to protect email exchanges with an evolution of DMARC. These developments are based on the work of an IETF Working Group, especially on RFC 9091. Here again, it is a matter of increasing the level of security of the exchanges to fight against abuse in electronic mail.

#### **6 MOSAPI DANE: [Lozano](#)**

Gustavo Lozano from ICANN talked about ICANN's monitoring tools and the API called MOSAPI which allows to monitor registry services such as DNS, RDDS and soon SRS with EPP. This service has been offered for more than 5 years. At AFNIC, they use it on a daily basis to monitor their .FR and gTLD registry services from the outside, but also to declare maintenance periods and .FR will soon join the DAAR program for ccTLDs.

#### **7 Host Presentation: [Rodríguez](#)**

Dr. Pablo Rodriguez made the usual host presentation. He shared what the new Convention Center looks like making us all wish we have attended the meeting in San Juan like we did a few years ago instead of sitting in front of a computer in the office. The .PR registry offers a new platform of Internet services for small and medium-sized businesses to develop their online presence.

## **8 Going Dark: [Moriarty & Vixie](#)**

Kathleen Moriarty and Paul Vixie took us to the heart of the evolution of encryption on the Internet in recent years and the changes and challenges that this imposes on operators in terms of architectures and services.

## **9 DNS Abuse Round Table: [Owen & Bunton](#)**

The panelists Graeme Bunton, Drew Bagley, Danielle Deibler, Luigi Lenguito, moderated by Leslie Daigle shared their views and work on the fight against DNS abuse with a focus on collaborative works, tools, projects, and detection methods.

## **10 DoS on a ccTLD: [Kohmanyuk](#)**

Dimitry Kohmanyuk spoke about the last DDoS attack on .UA. It had a high impact on their zone updates. He also shared the effects the Russian invasion had on their infrastructure and operation. This provided an new opportunity to learn how to increase resilience of services, processes and communication not only in terms of preparedness for wars of aggression but any disaster.

## **11 Closing Remarks: [Massé](#)**

I am grateful to Régis Massé for allowing me draw heavily on his notes for this report.