

Report for ccNSO Council

TechDay ICANN 84, Dublin

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1 TechDay

1.1 Opening Remarks

1.1.1 Eberhard Lisse

As usual I opened the meeting, introduced the session chairs for each session, explained that Jaromír Talíř would give the final remarks at the end and introduced the agenda.

1.2 Session 1 Chair Régis Massé

1.2.1 NTP Analysis: Serban Orza

Students from TU Delft presented NTPInfo, a web based tool to visualize measurements related to the Network Time Protocol (NTP) clock synchronization protocol. It uses the RIPE Atlas network which is yet another example how this world wide measurement network operated by RIPE NCC serve for the benefit of internet community.

.AS and .NA combined funding for one of the students to attend the meeting, three of the group came on their own account.

1.2.2 Practical DNSSEC Automation Guidelines: Peter Thomassen

IETF is working on guidelines for DNSSEC key change automation. These guidelines address several topics like validity checks and safety measures, reporting and transparency, registration locks, multiple submitting parties and handling CDS and CDNSKEY.

1.2.3 DNS Africa Data Analysis Journey: Neil Dundas

A very eloquent and well structured presentation summarized why data matters from reporting and transparency requirements to data driven business decisions. It was achieved through an experimental collaboration with students of the University of Pretoria and partnership with analytics partner TYTO.

1.2.4 DNSSEC (Git)Lab: Ulrich Wisser

ICANN manages a platform for DNSSEC workshops. It runs on AWS, but can be run locally and is available on GitHub.

1.3 Session 2 Chair Ondřej Filip

1.3.1 SPF/DMARC/DKIM: Régis Massé and Benoît Ampeau

Régis started with the introduction of fundamental concepts of these technologies including the importance of securing email communication. Benoît continued with the results of 3 years of collecting data from .FR regarding these technologies.

1.3.2 DNSControl: Tom Limoncelli

Tom introduced DNSControl, a Domain Specific Language (DSL) for DNS zone files.

DNSControl processes config files and generates zone files or connects directly to DNS providers. Building on the previous presentation, Tom showed how SPG/DKIM/DMARC can be managed via DNSControl including Builders to help assemble correct records. It has Automation support via GitHub Actions.

1.3.3 .NA update: Eberhard Lisse

I presented a list of various tools that we are using for the administration of .NA. Due to a staffing change caused by illness we took a complete inventory of our operation and decided to re-write our handbook using the new markup language typst. we also implemented RDAP

which required Tomcat, Nginx and Letsencrypt. This highlighted common but addressable areas of concern for small to medium TLD operators.

1.4 Session 3 Chair Nick Wenban-Smith

1.4.1 DASC Round Table

This session was very well attended covering AI tools to fight DNS Abuse.

1.4.1.1 .EU

They use a tool called APEWS in collaboration with the University of Leuven.

1.4.1.2 .UK

They use a tool called Genie, an assistive feature of their Databricks analytic platform.

1.4.1.3 .US

Their system actually generates lists of strings that are blocked from Registrations.

1.5 Session 4 Chair Luis Diego Espinoza Sanchez

1.5.1 Passive DNSSEC Data Collection Platform: Naveed bin Rais and Hafiz Farooq

DNSXplore is a DNSSEC Archiving and Diagnostic Platform funded by ICANN. It aims to collect 600 million domain names and is based on Open Source tools like Kafka, Graphana, and MongoDB.

The work in progress was demonstrated live and the final tool is expected to go live in October 2026

1.5.2 Cascade / Eol OpenDNSSEC: Marteen Aertsen

NLNetLabs has decided on a date for OpenDNSSEC End of Life and presented a replacement called Cascade which is written in Rust. Maarten presented a promising list of features.

Production ready release is planned for first half of 2026.

1.5.3 Blockchain Collision Risk Assessment: Nathan Alan

A followup to previous Blockchain research, in collaboration with AFNIC. They used a data set of 11M records from blockchain naming providers and he demonstrated various dimensions of risk such as Brand Protection, Dispute Resolution, DNS integration and others.

2 Tech Wg Meeting

2.1 Face to Face 2025-10-29

The Wg reviewed the TechDay, which was well attended, and proposed a Round Table about IDN/UA in Mumbai.

It was mentioned that during TechDay hardly anyone had been wearing headphones, in other words hardly anyone was visibly making use of translation services. This would be understandable given that the TechDay audience is predominantly technical and as such is required to be able to read the technical documents (RFCs) in English, anyway.

It was resolved to report to the ccNSO Council to propose to ICANN to stop providing translation services for future TechDays, as a cost cutting measure

It was also resolved to propose to Council to request that the TechWg gets some more flexibility with regards to the session lengths/breaks, with the exception of the lunch break, as we had several proposals which we had to keep in abeyance for future meetings.

This report draws heavily on the notes taken by Jaromír Talíř for which I am very grateful.