

# DNSOP

## DNS Operations

Session I IETF 122

17 March 2025

# Welcome to DNSOP

## Chairs

- Benno Overeinder <[benno@NLnetLabs.nl](mailto:benno@NLnetLabs.nl)>
- Tim Wicinski <[tjw.ietf@gmail.com](mailto:tjw.ietf@gmail.com)>
- Suzanne Woolf <[suzworldwide@gmail.com](mailto:suzworldwide@gmail.com)>

[Zulip/Meetecho](#)

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[OnSite Tool](#)

## Minutes

<https://notes.ietf.org/notes-ietf-122-dnsop>

Minutes: Paul Hoffman!

# IESG Changes

~~Warren Kumari~~ <[warren@kumari.net](mailto:warren@kumari.net)>

Say it ain't so ! Many Thanks for Many Years of Help and Support, and Occasional Outbursts of Astonishment

Please welcome

Mohamed Boucadair

<[mohamed.boucadair@orange.com](mailto:mohamed.boucadair@orange.com)>

He seems to prefer Med



# Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

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As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam if you have questions or concerns about this.

Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

[BCP 9](#) (Internet Standards Process)

[BCP 25](#) (Anti-Harassment Procedures)

[BCP 78](#) (Copyright)

[IETF/IRTF/IAB Privacy Statement](#) (Privacy Policy)

[BCP 25](#) (Working Group processes)

[BCP 54](#) (Code of Conduct)

[BCP 79](#) (Patents, Participation)

# IETF Code Of Conduct Guidelines RFC7154

1. Treat colleagues with respect
2. Speak slowly and limit the use of slang
3. Dispute ideas by using reasoned argument
4. Use best engineering judgment
5. Find the best solution for the whole Internet
6. Contribute to the ongoing work of the group and the IETF

**We take this very seriously. If you feel the Code has been violated, please reach out to the chairs or the IETF ombuds team.**

**"We work as Individuals, let's remember to be nice to each other"**

# IETF Meeting Tips

- In-person participants
  - Make sure to sign into the session using the Meetecho OnSite Tool from the Datatracker agenda
  - Use Meetecho to join the mic queue
  - Keep audio and video off if not using the onsite version
- Remote participants
  - Make sure your audio and video are off unless you are chairing or presenting during a session
  - Use of a headset is strongly recommended

# Agenda

- Agenda Bashing, etc
- Updates of Current Work, Chairs
- Hackathon Updates
- Current Working Group Business
- For Consideration

# Document Updates/Chairs' Vibes

# Document Status: RFCs published

Since our last meeting:

~~draft-ietf-dnsop-rfc7958bis~~ RFC9718

~~draft-ietf-dnsop-avoid-fragmentation~~ RFC9715

~~draft-ietf-dnsop-rfc8109bis~~ RFC9609

# Document Status: RFC Editor Queue

draft-ietf-dnsop-compact-denial-of-existence  
Compact Denial of Existence in DNSSEC

# Document Status: IESG evaluation

- draft-ietf-dnsop-generalized-notify
  - Generalized DNS Notifications
  - IESG Eval, Revised-ID
- draft-ietf-dnsop-must-not-ecc-gost
  - Deprecate usage of ECC-GOST within DNSSEC
  - IESG telechat: 2025-05-08
- draft-ietf-dnsop-must-not-sha1
  - Deprecating the use of SHA-1 in DNSSEC signature algorithms
  - Revised I-D Needed

# Document Status: IESG

- draft-ietf-dnsop-rfc8624-bis
  - DNSSEC Cryptographic Algorithm Recommendation Update Process
  - Questions arose in reference to RFC9157
  - The document incorporates the updates done in RFC9157,
  - *\*but\** this is not mentioned in this version anywhere.
  - The suggestion is to make a note in the introduction.
  - And 8624bis proposed status has to be “PS”
  - So IETF LC was extended, just ended 2025-03-16
  - Handed off to our new AD from here

# Document Status: IESG

- draft-ietf-dnsop-structured-dns-error
  - Structured Error Data for Filtered DNS
  - Publication Requested
  - Warren, this got stuck in the datatracker
  - We will need to find a new AD, as Med is an author

# Document Status: In WGLC

- draft-ietf-dnsop-dnssec-automation
  - DNSSEC automation

The chairs want to make sure the WG is OK in advancing this.

Some feedback still being reviewed

There's been some good mailing list discussion, but do we need more?

# Document Status: WGLC

- draft-ietf-dnsop-ns-revalidation
  - Delegation Revalidation by DNS Resolvers

It Begins today, ends 31 March

This document recommends improved DNS resolver behavior with respect to the processing of Name Server (NS) resource record (RR) sets (RRsets) during iterative resolution. When following a referral response from an authoritative server to a child zone, DNS resolvers should explicitly query the authoritative NS RRset at the apex of the child zone and cache this in preference to the NS RRset on the parent side of the zone cut.

# Document Status: On Today's Agenda

- draft-ietf-dnsop-cds-consistency
  - Clarifications on CDS/CDNSKEY and CSYNC Consistency
- draft-ietf-dnsop-domain-verification-techniques
  - Domain Control Validation using DNS

# Document Status: Waiting Their Turn

- draft-ietf-dnsop-svcb-dane
  - Using DNSSEC Authentication of Named Entities (DANE) with DNS Service Bindings (SVCB) and QUIC
  
- draft-ietf-dnsop-grease
  - Greasing Protocol Extension Points in the DNS

# Document Status: Call For Adoption

- draft-sheth-dns-integration
  - Integration of DNS Domain Names into Application Environments: Motivations and Considerations

This document reviews the motivations and considerations for integrating DNS domain names into an application environment and provides terminology to establish a shared understanding of what a DNS integration may entail.

# Document Status: Just Adopted

- draft-momoka-dnsop-3901bis
  - DNS IPv6 Transport Operational Guidelines

This memo provides guidelines and documents Best Current Practice for operating authoritative and recursive DNS servers, given that queries and responses are carried in a mixed environment of IPv4 and IPv6 networks. This document expands on RFC 3901 by recommending that authoritative and recursive resolvers support both IPv4 and IPv6.

# Other Documents

# What Else are we working on?

[Datatracker](#)

[Github](#)

[@ietf\\_wg\\_dnsop@hachyderm.io](mailto:@ietf_wg_dnsop@hachyderm.io)

[@ietf-wg-dnsop.bsky.social](#)

# Interim on DNSSEC Signing Pipeline

Interim held in February to discuss the architecture around Distributed Multi-Signer DNSSEC Signing Pipeline. There are several pieces involved, and active interest in implementing.

Johan Stenstam led the discussion on using DNS to build all of this.

<https://datatracker.ietf.org/meeting/interim-2025-dnsop-01/materials/minutes-interim-2025-dnsop-01-202502171500-02.md>

We want to encourage the work while balancing other DNSOP business.  
Open to suggestions.

# Other Meetings of Note

The IETF 112 PQ DNSSEC side meeting is scheduled on

Tuesday, March 18, 2025 09:30-10:30 (local Bangkok time)  
Meeting Room 2

Remote participation: <https://ietf.webex.com/meet/ietfsidemeeting2>

For more information, see: <https://trello.com/c/xXjSjBuK/61-0930-1030-pq-dnssec-research>

# IETF 122 Hackathon DNS projects

- dry-run DNSSEC: Yorgos Thessalonikefs  
<https://datatracker.ietf.org/doc/draft-yorgos-dnsop-dry-run-dnssec/>
- DNS over CoAP (DoC) integration in Unbound, Martine Lenders  
<https://datatracker.ietf.org/doc/draft-ietf-core-dns-over-coap/>
- PQC for DNSSEC—Testing new PQC Algorithms, Ondřej Surý  
<https://datatracker.ietf.org/meeting/122/materials/slides-122-hackathon-sessd-pqc4dnssec-00>

# IETF 122 Hackathon DNS projects cont'd

- PQC DNSSEC Metrics with MTL Mode, Joe Harvey and Swapneel Sheth  
<https://datatracker.ietf.org/meeting/122/materials/slides-122-hackathon-sesd-pqc-dnssec-metrics-with-mtl-mode-00>
  - test environment to measure response size and query time across different networks
- Implementing multi-qtype, Ted Lemon  
<https://datatracker.ietf.org/doc/draft-bellis-dnsexp-multi-qtypes/>
  - Early implementation feedback to draft and questions send to mailing list
- Signaling Zone Owner Intent via HSYNC, Johan Stenstam  
<https://datatracker.ietf.org/meeting/interim-2025-dnsop-01/session/dnsop>
  - Communication between providers is now more robust against outages and interruptions
  - More on distributed multi-signer in Thursday DNSOP WG meeting

# Agenda

# Agenda: Current Working Group Business

- Clarifications on CDS/CDNSKEY and CSYNC Consistency
  - <https://datatracker.ietf.org/doc/draft-ietf-dnsop-cds-consistency/>
  - Peter Thomassen 5 min
  
- Domain Verification Techniques using DNS
  - <https://datatracker.ietf.org/doc/draft-ietf-dnsop-domain-verification-techniques/>
  - Shumon Huque 5 min

# Agenda: For Consideration

- DNS Filtering Details for Applications
  - <https://datatracker.ietf.org/doc/draft-nottingham-public-resolver-errors>
  - Mark Nottingham 15 min
- Clarifications to the DNS Ranking Data
  - <https://datatracker.ietf.org/doc/draft-fujiwara-dnsop-ranking-data/>
  - Kazunori Fujiwara and Willem Toorop 15 min