

18th DNSSEC Provisioning Automation Panel

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Thank you, Steve!

... for your relentless drive running this panel since 2020

DNSSEC Automation Primer

Originally (~2010):

- Manual signing
 - Manual key management / rollover in the child zone
- Today: **Tooling available** for all of that

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Two gaps remaining:

1. Automation of **DS provisioning** (initial enrollment + updates)
 - when DNS Operator $\neq$ Registrar $\rightarrow$ no direct access to parent
2. Automation of **Multi-Provider Setups** (“multi-signer”)
 - when providers sign independently (RFC 8901 Model 2) $\rightarrow$ requires sync’ing DNSKEY/CDS/...

Quick Update on Specification Developments

- [RFC 9859](#) published (September 2025)
“Generalized DNS Notifications”
- [draft-ietf-dnsop-cds-consistency](#): IETF Last Call ended today
“Clarifications on CDS/CDNSKEY and CSYNC Consistency”
- [draft-ietf-dnsop-ds-automation](#): Adopted by DNSOP WG
“Operational Recommendations for DS Automation”
- [draft-huque-dnsop-multi-alg-rules](#): Under consideration by DNSOP WG
“Multiple Algorithm Rules in DNSSEC”
- [Informal document](#) on requirements for a multi-signer coordination protocol

Panel Overview

Topic

1. Success story: DS automation at .CZ
2. Optimum TTL for DS Records
3. DS Automation Guidelines
4. Multi-signer Requirements

Speaker

Ondřej Filip

Mark Elkins

Peter Thomassen

Shumon Huque

Previous Panel References

1	11 Mar 2020	ICANN 67 Cancún	https://tinyurl.com/5dwxfz2v
2	22 Jun 2020	ICANN 68 Kuala Lumpur	https://tinyurl.com/m8eraezu
3	21 Oct 2020	ICANN 69 Hamburg	https://tinyurl.com/f8ma6347
4	24 Mar 2021	ICANN 70 Cancún	https://tinyurl.com/bj69sn87
5	14 Jun 2021	ICANN 71 The Hague	https://tinyurl.com/t2fcefr6
6	27 Oct 2021	ICANN 72 Seattle	https://tinyurl.com/32aepd3
7	9 Mar 2022	ICANN 73 San Juan	https://tinyurl.com/zyyb29s9
8	13 Jun 2022	ICANN 74 The Hague	https://tinyurl.com/yn4c45t7
9	21 Sep 2022	ICANN 75 Kula Lumpur	https://tinyurl.com/46fhfkjs
10	15 Mar 2023	ICANN 76 Cancún	https://tinyurl.com/yefd64hw
11	12 Jun 2023	ICANN 77 Washington	https://tinyurl.com/4xxz3uxw
12	25 Oct 2023	ICANN 78 Hamburg	https://tinyurl.com/398j5n6j
13	6 Mar 2024	ICANN 79 San Juan	https://tinyurl.com/m5zbkwtf
14	10 Jun 2024	ICANN 80 Kigali	https://tinyurl.com/yxdx4afw
15	13 Nov 2024	ICANN 81 Istanbul	https://tinyurl.com/43xdzucv
16	12 Mar 2025	ICANN 82 Seattle	https://tinyurl.com/bddcsefk
17	9 Jun 2025	ICANN 83 Prague	https://tinyurl.com/bdwppehd5
18	29 Oct 2025	ICANN 84 Dublin	https://tinyurl.com/ypfemkkf