

Root Zone DNSSEC Update

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PTI | An ICANN Affiliate

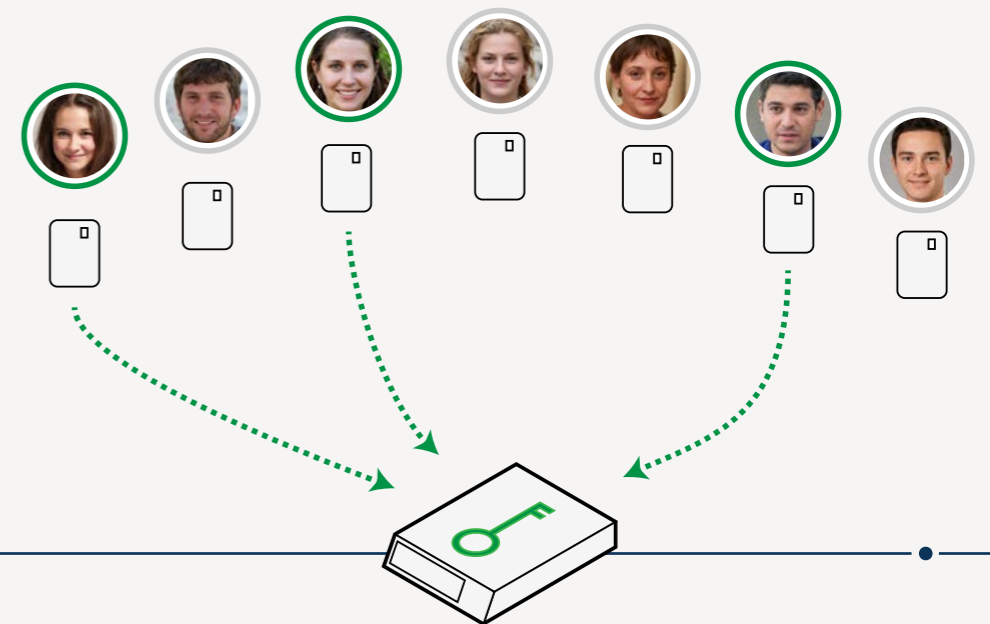


Quarterly Ceremonies

- Key Signing Ceremony are being conducted at their regular cadence (every 3 months)
 - During 2020-2021 this was altered as a COVID-19 mitigation, but we can now confidently hold them as scheduled
- In-person attendance by trusted community representatives has resumed
 - Remote participation temporarily to limit exposure risk
- The last remaining deviation is the lack of participation by external witnesses and media
 - Will assess this based on contemporary risk analysis by ICANN Security Operations prior to each ceremony
 - We have had media interest that has been declined to recent ceremonies, but we'd like to foster awareness as soon as we can

Trusted Community Representatives

- Daniel Kaminsky replaced by David Lawrence as RKSH
 - More info in ICANN 72 presentation
- With in-person TCR participation at ceremonies resuming, significant turnover of TCRs is being planned for
 - Many TCRs have served since 2010 and are looking to move on
 - We seek an orderly, staggered change to TCRs to ensure knowledge retention
- We are always looking for SOIs: <https://iana.org/tcr>
 - Prize diversity in applicants, the TCRs as a whole are intended to bring a diversity of skills, backgrounds and attributes



Next KSK Rollover

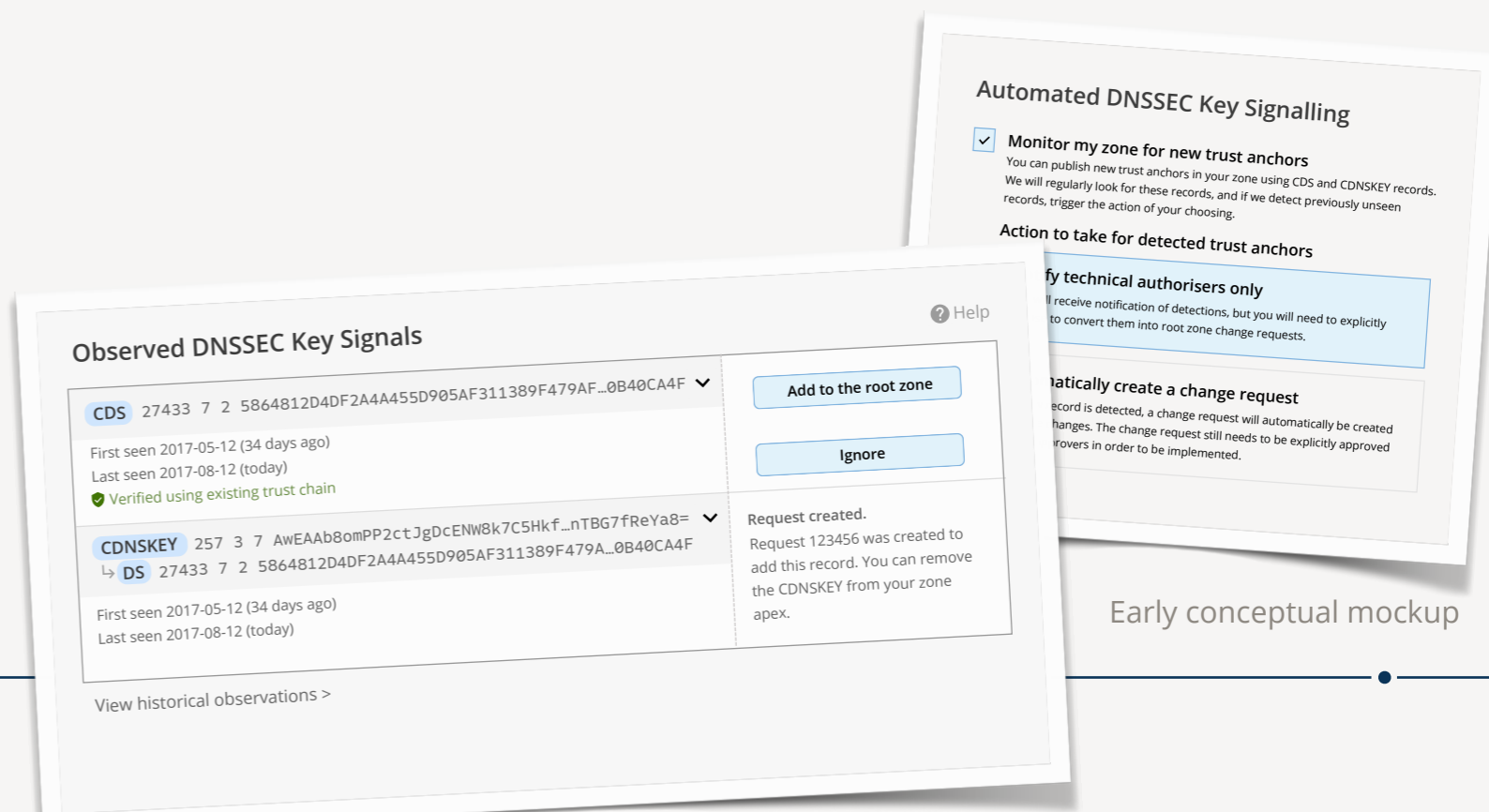
- First KSK was created in 2010, rolled to the next KSK on 11 October 2018
- In 2020, we conducted a public comment proceeding to gain feedback on future rollovers:
 - <https://www.icann.org/en/public-comment/proceeding/proposal-for-future-root-zone-ksk-rollovers-01-11-2019>
 - Some feedback included generating a standby key and providing longer lead time for public key propagation (More detail at ICANN 67)
 - It concluded, “... *the next scheduled KSK rollover will be reconsidered when there is greater confidence face-to-face operations and international travel to the US can safely resume ...*”
- We believe we are now at a level of certainty to start this planning, which will begin this fiscal year.

Algorithm Rollover

- We've committed to performing research and preparatory work for an algorithm rollover in the DNS root zone
 - Root Zone currently uses RSA/SHA-256
 - Algorithm rollover could migrate to an elliptic curve based algorithm, for example
- The next KSK rollover is not planned to be an algorithm roll
 - We expect the exploratory work to take too long to be ready
- Expect to convene a design team similar to the process for the last KSK rollover
 - Use the resources of OCTO and contractors to support the exploration of issues, including test beds and the like
 - Develop a set of requirements that will then be used to develop an operational plan against
- Kick off of the project anticipated for November

Processing DS records

- We mentioned at ICANN 74 there had been no interest signalled in CDS support at the root zone
 - A few people raised their hands that they are interested
- Will consider the concept as part of a broader concept of proactive monitoring of delegations
 - Root Zone Update Study has recommended we institute such a process
 - Expect to engage with the community on specifics to inform our plans



Engagement kickoff

- Adjacent to the **ICANN DNS Symposium**, we will be holding a session on IANA technical evolution
 - <https://www.icann.org/ids>
- Two key themes will be:
 - Tech Check Evolution
 - Algorithm rollover for the DNS root zone
- Encourage your participation there, as we flesh out our thoughts in more detail
- Will also do online engagement, public comment periods and the like, throughout the process so there will be ample opportunity to contribute.
- But thoughts are welcome any time (including now!)



IANA Community Day

17 November 2022, Brussels

Thank you!

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