DENIC‘s First Year in DNSSEC
- attempts to observe and conclude -

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DNSSEC Panel, Praha, 2012-06-27
DENIC’s DNSSEC timeline

- DNSSEC testbed started 2010-01
- Child DNSKEYs accepted for testbed 2010-03
- DNSSEC enabled for DE TLD 2011-05-31
- DE DS RR appears in root zone 2011-06-07
Let's talk numbers, Part I

- domains registered in the DE TLD

15,000,000
Let's talk numbers, Part II

150,000

- domains with data *authoritative* in the DE zone
- ... instead of delegated
- that's a DENIC special – for historic reasons
- these domains benefit from DNSSEC *without registrar/registrant action*
Let's talk numbers, Part III

- domains signed by registrar/registrant (or reseller)
- that is the current demand baseline

1,500
Let's talk numbers, Part IV

500

- domains signed and key material registered
Needles in a haystack (2012-06, log scale!)
Signed vs registered domains
Signed & registered domains per registrar (2012-05)
Advantage: Follower
First Year DNSSEC - Trivia

- Customers have indeed changed registrars
  - ... to get their keys registered
  - not yet under DNSSEC – operator change issue not yet relevant

- Little to no technical issues
  - however, automation has its cost
  - ... and installed base is still small!

- No prominent customers, yet
  - maybe except paypal.de, but CDNs need to play nice

- Most customers use KSK/ZSK split
  - some try full automation – appliances need attention
First Year DNSSEC – First Conclusions

- **Limited uptake**
  - growth mainly due to enthusiast customers/resellers
  - DNSSEC „support“ comes in different flavours
  - still competing with IPv6 for (engineering) resources

- **Moving targets are bad**
  - DLV, NTA (negative trust anchors), late „little“ changes ...

- **Waiting for the killer app**
  - DANE hard to sell
  - ... also hard to keep the promise
Thanks!

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