DNSSEC Adoption at the Top

Edward Lewis
ed.lewis@neustar.biz
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What is counted

» Root zone plus 305 306(*) of its 346 317 delegations
  » The 11 uncounted are non-operational test zones
  » One new zone appeared in the final edit of the slides

» Why?
  » To measure where DNSSEC “is possible”

» What’s interesting
  » Zones with keys and signatures; Zones with a DS set at root
  » For the major categories, percentage of adoption
  » For the major “trade” groups, percentage of adoption
Adoption growth (quarterly)

Currently one-third of operational TLDs + root are signed

- Signed
- DS

21%
Adoption by Category

Most TLDs are ccTLD

- non-ccTLD (gTLD)
- ccTLD
- IDN ccTLD
- All
Adoption Rate by Membership

- CENTR: 60%
- APTLD: 40%
- LACTLD: 30%
- ccNSO: 25%
- All: 30%
- Non-Members: 15%
- AFTLD: 10%
Some Speculation

» Most of the gTLD category answer to ICANN
  » ICANN is a promoter of DNSSEC
  » This isn’t that significant, but it shows a skewing to outside (the registry) decision making plays a role

» Membership in a “trade organization” helps
  » Access to help and “Peer pressure”

» For my friends at CENTR: “it pays to be a member of CENTR!”

» For my friends elsewhere: “it pays to be a member anywhere!”
Adoption Elsewhere

» The root and the TLDs are not indicative of general adoption
» A few TLDs have had “noticable” adoption
» More TLDs have had “negligible” adoption
» Unsigned TLDs have no measureable adoption
  » But there are signed zones in unsigned TLDs