DNSEXT

IETF 77
Anaheim, CA, USA

Chairs: Olafur Gudmundsson, Andrew Sullivan
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Agenda

1. Order, report of Chairs (brief)

2. Name equivalences/aliases (1 hour)

3. Other items (50 minutes)
   1. dnssec-bis-updates
   2. dempsky-dnscurve
   3. dnsext-0x20
   4. Roll over and die

4. A.O.B./Adjourn
Name “equivalence” / “aliases”

• What we are trying to do
• Why do this?
• What we are not trying to do
• Progress so far
• Open discussion
“Equivalence”: what

• The desire is to make “two names” work “the same” in the DNS
  ❖ We need to decide what we mean by “two names” (historical user confusion between host and domain names)
  ❖ We need to decide what we mean by “the same” (or maybe “work”)

“Equivalence”: why?

- Immediate impetus from IDNA
  - Name “variants”
  - Desire to make upper- and lower-case IDNA2008 work similarly to ASCII
  - Need of different scripts to resolve to same network location
“Equivalence”: why? (2)

• CNAME can’t work (doesn’t alias tree)
• DNAME does not alias name itself
• Both problematic as ancestors because of MX and so on
• User/operator community reports of difficulty with current options
“Equivalence”: out of scope

- Not going to solve specific language problems
  - We do not have the expertise
- Not going to break entire installed base
  - This is not “DNSng” through the back door
“Equivalence”: interim

• See DNSEXT wiki (http://trac.tools.ietf.org/wg/dnsext/trac/wiki)

• General agreement that there is a problem to be solved

• Interest so far in two approaches: BNAME proposal and zone cloning (i.e. neither ruled out)
“Equivalence”: list

- List discussion has ranged widely
  - Some effort to get a clear problem statement
  - Some rathole exploration
  - Some proposals for action
“Equivalence”: kinds

- Two kinds of approach
  - Provisioning side vs. resolution side approaches
  - Replication vs. indirection
“Equivalence”: TODO

- Taxonomy of desired behaviour
- Drive to consensus on what limitations are ok
- Decide whether there is protocol work to be done
  - if so, decide whether WG will do it
  - if not, write I-D saying what needs to be done by someone else
“Equivalence”:

constraints

• MUST work with DNSSEC

• MUST NOT require simultaneous upgrade of entire DNS

• may require upgrades of servers

• may require upgrades of client resolvers (?)

• should support operators of descendent zones
“Equivalence” discussion