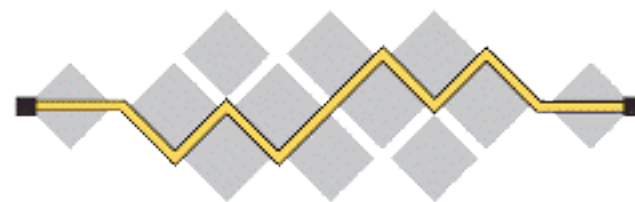# DNSEXT

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")

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"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

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"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

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"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)

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"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

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"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

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"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