

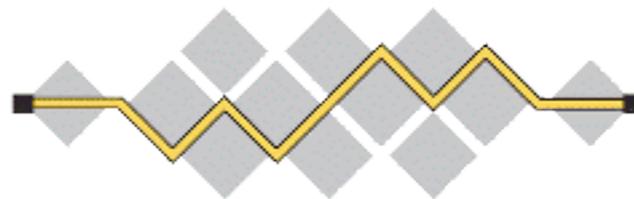
# DNSEXT

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(session 2)

*Chairs:* Olafur Gudmundsson, Andrew Sullivan



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# Meeting plan

1. What we already have.
2. What we have proposals for
3. Description of problems we think we are solving.
4. Description of things we think we cannot possibly do
5. Discussion: is this approximately right?

# What we have today

- CNAME redirects a name itself
- DNAME redirects all the stuff underneath, *but not* the name itself
- Neither of those is a canonical name (so can't be the target of an MX record, for instance)

# Things proposed I

- CNAME + DNAME
  - ▶ relax rules about CNAME living alone
  - ▶ we did it before for DNSSEC, so not impossible
  - ▶ requires signalling
  - ▶ investigation needed to see if this causes big trouble

# Things proposed 2

- BNAME
  - ▶ new RRTYPE that offers functionality equivalent to CNAME and DNAME together
  - ▶ needs a synthetic CNAME for backward compatibility
  - ▶ unknown deployment barrier (DNAME is 10 years old and not universally implemented)

# Things proposed 3

- SHADOW
  - ▶ support for in-zone “sugar” to make provisioning easier
  - ▶ provisioning systems likely need support, but invisible to end systems

# What these would solve

- Get a way of doing aliases that many people thing we already have
- Provide some management help for many zones

# What will not get solved

- You still get a big whack of host names
- No automatic character-to-character maps (for cases that that's wanted)
- No automatic solution to any language issues
- C+DNAME or BNAME still have the “first class citizen” problem
- No suggestion for how to prove what aliases a host known by

# Discussion

Ground rule:

We are collecting use-cases, not ruling work out.

We're not allowed to say that we "can't" do something, but allowed to say that something can't be done in the DNS. The answer could be "DNS can't solve this, we need something else."