

Let's Talk CNAME @ APEX

RFC1034 3.6.2. Aliases and canonical names

If a CNAME RR is present at a node, no other data should be present; this ensures that the data for a canonical name and its aliases cannot be different. This rule also insures that a cached CNAME can be used without checking with an authoritative server for other RR types.

DNSext Working Group
Internet-Draft
Updates: 1034 (if approved)
Intended status: Standards Track
Expires: February 19, 2011

O. Sury
CZ.NIC
August 18, 2010

CNAME at the zone apex
draft-sury-dnsxt-cname-at-apex-00

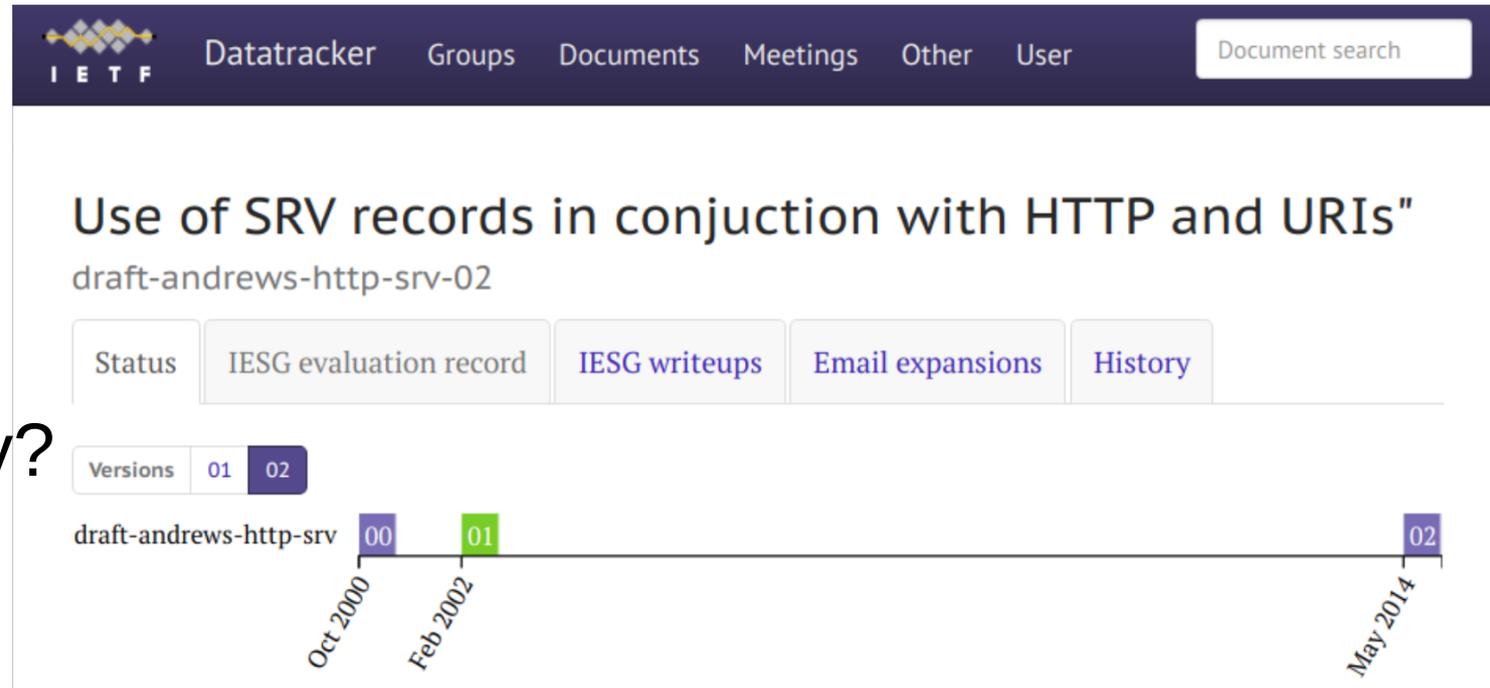
Use case: name redirect (for web)

- `example.com CNAME www.example.com`
- #1 asked for feature by users
- Cloud DNS providers have it (*stupid DNS tricks*)
Open Source DNS software do not
- Address in standards compliant manner

Other protocols have it

- Mail has MX
- SIP, XMPP, Minecraft etc. have SRV
- Why not HTTP?

Deployability?
Latency?



DNAME?

- `example.net DNAME example.com`
- Allowed at apex and next to other RR types
- Redirects `*.example.net`
but not `example.net`

ANAME?

- Only address records
- Special care needed for offline signed DNSSEC

Op 18-07-17 om 18:09 schreef Tony Finch:

; ANSWER

dotat.at. A 212.13.197.229

dotat.at. RRSIG A

; ADDITIONAL

dotat.at. AAAA 2001:ba8:1e3::

dotat.at. RRSIG AAAA

dotat.at. ANAME www.chiark.greenend.org.uk.

dotat.at. RRSIG ANAME

www.chiark.greenend.org.uk. A 212.13.197.231

www.chiark.greenend.org.uk. RRSIG A

www.chiark.greenend.org.uk. AAAA 2001:ba8:1e3::

www.chiark.greenend.org.uk. RRSIG AAAA

Note that neither the resolver nor the client needs any algorithm updates to avoid being confused by this additional information; they just need a code update so that they are able to make good use of it.

If the resolver knows the client is DNSSEC-oblivious then it can do the substitution itself and return a simple answer like this:

dotat.at. A 212.13.197.231

Validating but ANAME-oblivious resolvers won't get to enjoy clever latency minimization tricks.

EXPIRED

CNAME+DNAME Name Redirection

draft-sury-dnsop-cname-plus-dname-01

Status

IESG evaluation record

IESG writeups

Email expansions

History

Versions

00

01

draft-sury-dnsex-cname-dname

00

draft-sury-dnsex-cname-at-apex

00

draft-sury-dnsop-cname-plus-dname

01

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Replaces [draft-sury-dnsex-cname-at-apex](#), [draft-sury-dnsex-cname-dname](#)

Stream (None)

Intended RFC (None)

