

# 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**

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CZ.NIC  
August 18, 2010

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

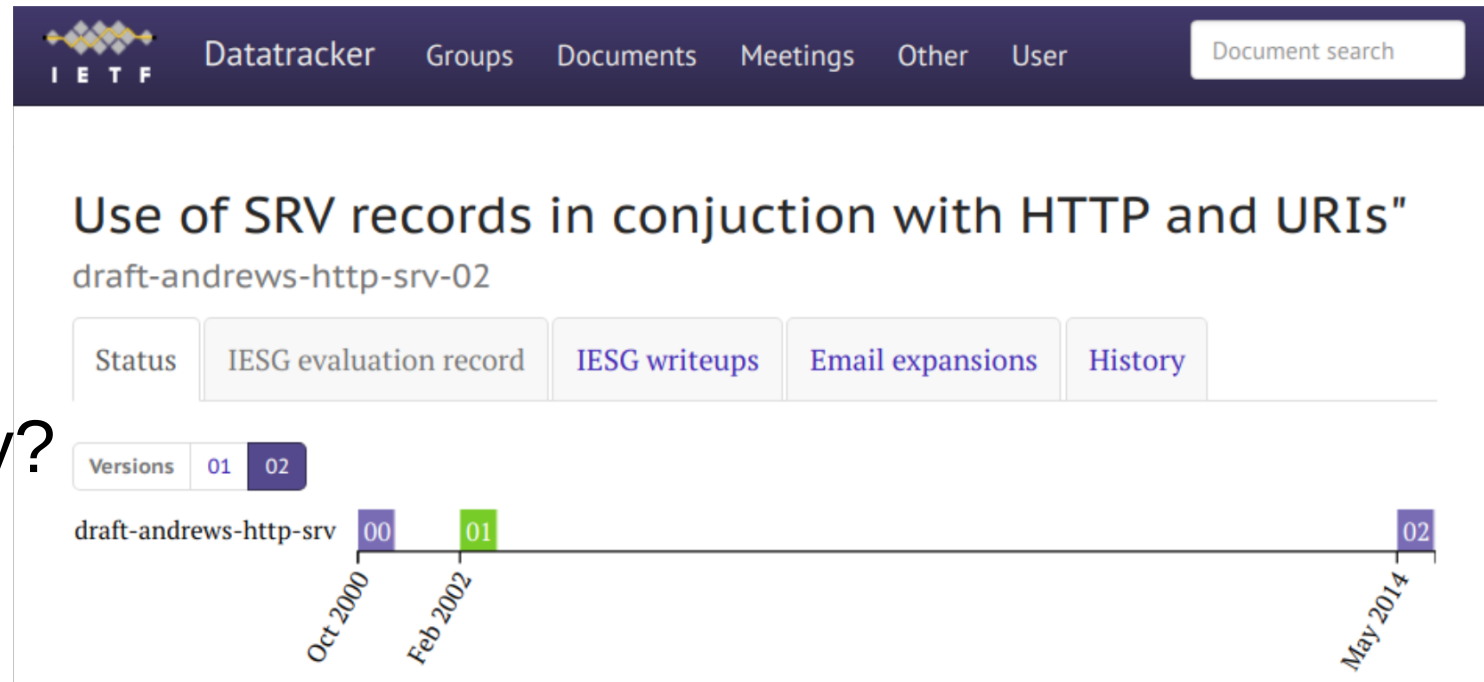
# Use case: name redirect (for web)

- `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](http://www.chiark.greenend.org.uk).

dotat.at. RRSIG ANAME

[www.chiark.greenend.org.uk](http://www.chiark.greenend.org.uk). A 212.13.197.231

[www.chiark.greenend.org.uk](http://www.chiark.greenend.org.uk). RRSIG A

[www.chiark.greenend.org.uk](http://www.chiark.greenend.org.uk). AAAA 2001:ba8:1e3::

[www.chiark.greenend.org.uk](http://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-dnsexp-cname-dname

[00](#)

draft-sury-dnsexp-cname-at-apex

[00](#)

draft-sury-dnsop-cname-plus-dname

**[01](#)**

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## Document

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

**Stream** (None)

**Intended RFC** (None)

