



# DNS @ IETF 75

Stockholm  
26-31 July 2009

# DNS-EXT

# forgery resilience

— [ discussion around

**draft-barwood-dnsex-fr-resolver-  
mitigations**

and

**draft-wijngaards-dnsex-resolver-side-  
mitigation**

# forgery resilience

— [ 4 options presented after discussion

— do nothing (- -)

— adopt draft-barwood-dnsexst-fr-resolver-mitigations (- - -)

— adopt draft-wijngaards-dnsexst-resolver-side-mitigation (- -)

— adopt both drafts and work on them (+)

# EDNSO

— [ new editor, Michael Graff, for

**draft-ietf-dnsext-rfc2671-bis-edns0**

— [ Eric Osterweil presented data about DNS Path MTU, DNSSEC,  
and buffer sizes

— see the **dnstunnel** application on

<http://vantage-points.org>

# Behave

— [ work in the BEHAVE wg touches DNS issues

**draft-ietf-behave-dns64**

— DNS64 is a mechanism for synthesizing AAAA records from A records

— [ Andrew Sullivan (co-editor) asked for feedback to BEHAVE wg



# IXFR-only

— [ Shane Kerr presented **draft-kerr-ixfr-only-00**

— specifies a new IXFR-ONLY query type, masters will send error if IXFR is not possible, instead of full AXFR

— there was a mild hum in favor for adopting this document, will be discussed further on the mailinglist

# DNS-EXT charter changes

— [ topics requested to be added

— IXFR only

— DNS RFC guide

— RFC 1034/1035 rewrite

— DNSKEY support option



# DNS-EXT charter changes 2

- [ DNS RFC Guide

- summary of all relevant DNS RFCs

- [ discussion on form (RFC, wiki, living document, ...) of this document

- Result of discussion: something is needed, but it should **not** be in RFC format

# Query type for IPv4+IPv6

- [ Li Lianyan presented

- **draft-li-dnsext-ipv4-ipv6-01**

- single query type that will return both A and AAAA records

- [ the WG indicated that this topic need work

- but no support in the WG for the current draft

# new DNSSEC algorithms

— [ Steve Crocker presented

**draft-crocker-dnssec-algo-signal**

— [ David Conrad asked about feedback on algorithm to sign the root zone (SHA-1 vs. SHA-256)

— [ discussion on how DNSSEC algorithm identifiers are assigned

— Paul Hoffman volunteered to write an initial I-D for WG consideration

# DNS-OP

# DNSSEC key timing

- [ Johan Ihren presented **draft-morris-dnsop-dnssec-key-timing-00**
- explicitly identifies the relationships between the various time parameters used in DNSSEC
- still need to work on interactions with 4641 bis
- new draft for IETF 76 (Hiroshima)

# Trust History

— [ Wouter Wijngaards presented

**draft-wijngaards-dnsop-trust-history-00**

— [ History service allows validators to query for older DNSKEY RRsets and pick up the rollover trail where they left off

— plan is to support end-users with local validators

— [ Document accepted as WG document (either in DNS-OP or DNS-EXT)



# DNS redirect

— [ Jason Livingood presented

**draft-livingood-dns-redirect-00**

— Lively discussion

— a DNS synthesis concerns draft is worked on in the IAB

— problems with DNSSEC, Internet is not just Web

# DNSSEC Policy Statement Framework

— [ Anne-Marie Eklund-Lowinder and Fredrik Ljunggren presented **draft-ljunggren-dps-framework-00**

— [ support for this document in the WG, next document version end of September

— [ Decision about WG document at IETF 76

# Reverse DNS in IPv6 for ISP

— [ Alain Durand presented

**draft-howard-isp-ip6rdns-00**

— [ document analyses different approaches to managing/pre-populating the ip6.arpa. zone for broadband customers

# What else?

# ISOC DNSSEC Panel

Raising DNSSEC awareness  
DNSSEC signing plans:  
root zone in 2009  
“.net” in 2010  
“.com” in 2011



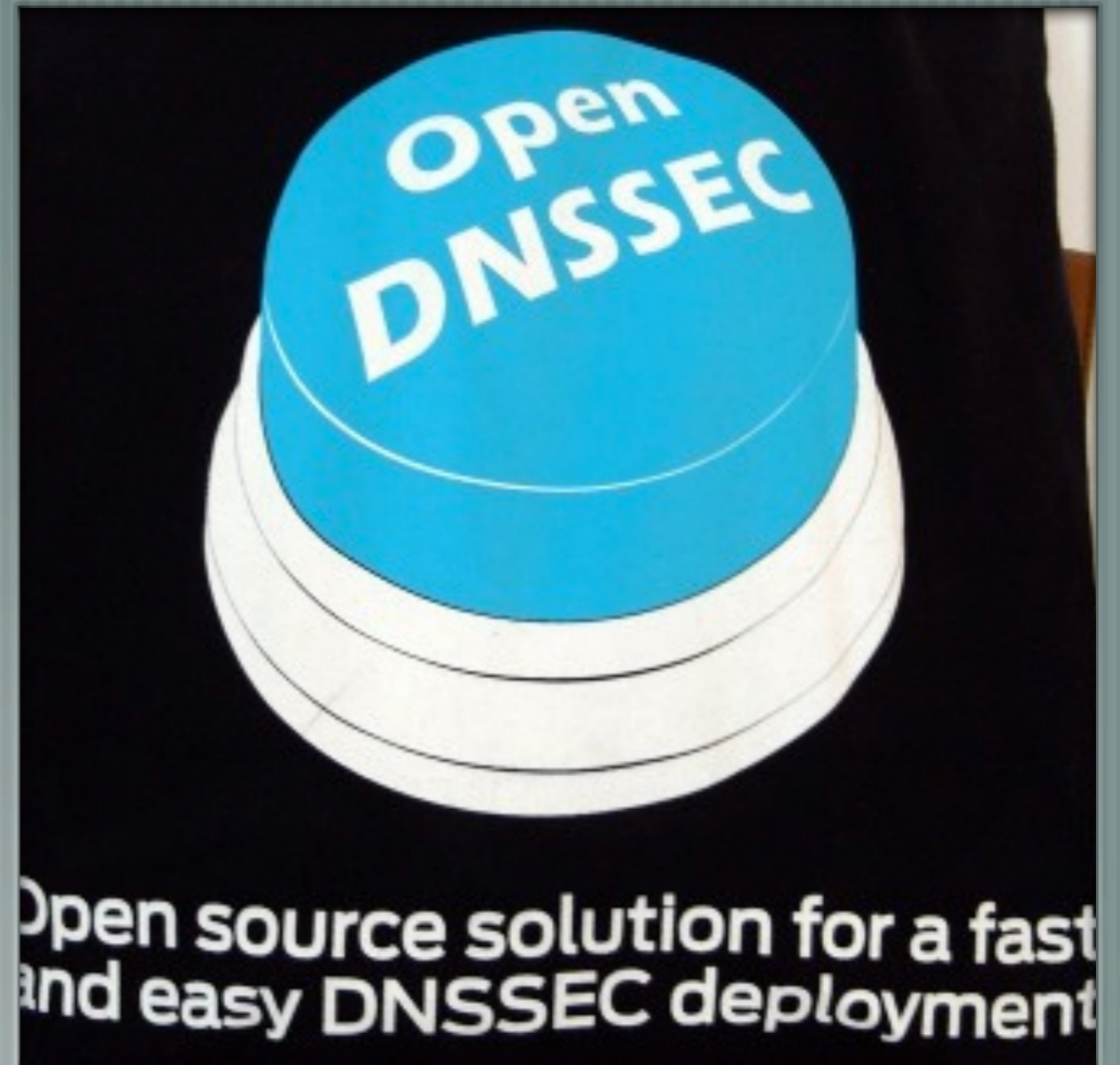


# OpenDNSSEC prerelease

easy to use DNSSEC signing  
toolchain

Version 1.0.0b1 out now  
BSD License

<http://opendnssec.org>





# IETF DNS WG

— [ DNS-EXT - <http://tools.ietf.org/wg/dnsext/>

— [ DNS-OP - <http://tools.ietf.org/wg/dnsop/>

# Pictures

— [ "Securing the DNS" panel event; IETF75, Stockholm, Sweden; 28 July 2009. Photo by ISOC Staff (Lincoln McNey), July 2009, CC-S-A

— ISOC flickr set (<http://www.flickr.com/photos/26615416@N02/sets/72157621943540560/>)

— [ OpenDNSSEC - .SE (<http://www.internetdagarna.se/>)