

DNS Activity at IETF66

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With Acknowledgements to Peter Koch

Outline

- DNSOP
- DNSEXT
- Other

DNSOP

DNS Operations

<http://tools.ietf.org/wg/dnsop>

DNSOP

Done Deals

- DNSSEC Operational Practices
 - RFC4641
- Observed DNS Resolution Misbehavior
 - In RFC editor queue

DNSOP

Old face, new clothes

- Considerations for the use of DNS Reverse Mapping
 - Used to be called draft-ietf-dnsop-inaddr-required
 - Andrew Sullivan new editor
 - draft-ietf-dnsop-reverse-mapping-considerations-00.txt



DNSOP

The AS112 basket



- AS112 anycast network to suck up and answer queries for RFC 1918 zones, 'local' addresses, etc
- DNSOP seems broadest forum to discuss issues related the operations of AS112 (like) services.
 - draft-jabley-as112-being-attacked-help-help-00.txt
 - draft-jabley-as112-ops-00.txt
 - draft-ietf-dnsop-default-local-zones (post WGLC)
 - How to update zones and transport for AS112

DNSOP

- draft-ietf-dnsop-reflectors-are-evil
 - Almost finished
- draft-ietf-dnsop-respsize
 - Revived and
- draft-ietf-dnsop-serverid
 - A requirement draft

DNSOP

Other Activity

- Lixia Zhang: TTLs for infrastructure NS RRs.

DNSEX

Done Deals

- The Role of Wildcards in the Domain Name System
 - Published RFC4592
- Preventing enumeration with online private keys
 - RFC 4470 draft-ietf-dnsex-dnssec-online-signing
 - RFC 4471 draft-ietf-dnsex-dns-name-p-s
- A DNS RR for Encoding DHCP Information (DHCID RR)
 - In the RFC editor queue
- Link Local Multicast Name Resolution
 - At IESG, struggling with appropriate boilerplate

DNSEXT

More Done Deals

- Nameserver ID
 - Now at IESG, blocked, waiting for a requirements draft from dnsop
- dnssec-experiments and dnssec-opt-in
 - Both on their way to the RFC queue

DNSEXT DNSSEC work

“Crypto Maintenance”

- DS-RR with SHA256
 - SHA1 has some problems
 - First draft during IETF64 now in the RFC queue
 - RRSIG with RSA/SHA256 also on the roadmap
 - DNSSEC designed with flexibility w.r.t. crypto algorithms
- More algorithm work
 - About storing ECC, DSA and DH keying

DNSEXT

NSEC3

NSEC3

- This work has momentum
- Second workshop concluded Sept 06
 - No skeletons in the closet
 - Almost ready for last call

6 MONTHS!

DNSEXT DNSSEC work

Trust Anchors

Real work got done....

- Working group selected one proposal
- That solution is currently in last call

DNSEXT

other work

- Domain Name System (DNS) IANA Considerations
 - draft-ietf-dnsext-2929bis-03.txt
- New work
 - DNAME clarification rfc2672bis
 - DNAME is an aliasing mechanism that aliases complete domain trees
 - First proposed in context of IPv6 renumbering
 - Now a hot topic in the context of IDN deployment

Elsewhere in the IETF

- draft-ietf-grow-anycast-04.txt
 - Anycast BCP
 - In IESG
- draft-iab-dns-choices
 - Needs a final editing cut before it appears
- RFC4690: Review and Recommendations for Internationalized Domain Names
- ENUM work (which hopefully was reported on in a previous session)
- DKIM Domain Keys identified Emails
 - Uses the DNS for authorizing origin

IETF Participation

- Join the mailinglists
 - tools.ietf.org/wg/<wg acronym>
- Attend the meeting physically
 - IETF67 in San Diego (5-10 November 06)
 - IETF 68 in Prague (18-23 March 07)
 - IETF 69 in Chicago (22-27 July 07)
- or remotly
 - Webcast
 - Jabber: <wg acronym>@rooms.jabber.ietf.org.