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
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.
DNSEXT Done Deals

• The Role of Wildcards in the Domain Name System
  – Published RFC4592

• Preventing enumeration with online private keys
  – RFC 4470 draft-ietf-dnsext-dnssec-online-signing
  – RFC 4471 draft-ietf-dnsext-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 info
DNSEXT
NSEC3

NSEC3

– This work has momentum
– Second workshop concluded Sept 06
  • No skeletons in the closet
  • Almost ready for last call
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 remotely
  – Webcast
  – Jabber: <wg acronym>@rooms.jabber.ietf.org.