RSSAC Update

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Committee Overview

• RSSAC is one of the original ICANN Advisory Committees
• Includes root nameserver operators, RIRs, researchers, interested others
• Does not represent the root nameserver operators; a forum for interaction between operators and ICANN
• Provides written recommendations, informal advice to IANA
• Meets at IETF, most recently in Prague right before ICANN in Lisbon.
Current Work

• IPv6 addresses for the roots
  – Report to the Board finalized
  – Joint effort with SSAC
  – See transcript of Weds SSAC session

• DNSSEC readiness
  – For the first time, all the roots report ready to serve signed data
  – Critical step to signing the root

• IDN input to ICANN
DDoS

• 6 Feb 2007
  – A couple of hours
  – Standard attack profile: lots of traffic, attempt to overwhelm servers and network links

• Impact very limited, almost zero impact on users because of DNS redundancy
  – Only some operations/letters attacked
  – Anycast compartmentalized impact for most
  – Conversation about improved monitoring and analysis
  – more real-time coordination with TLDs
IPv6

- A DNS record for an IPv6 address is different to a record for an IPv4 address.
- TLDs have been able to put IPv6 address records in the root zone for a couple of years.
- Several root nameservers are ready with IPv6 addresses and transport.
- We haven’t yet added IPv6 address records for the root nameservers. Concerns:
  - Backwards compatibility for larger responses to DNS queries
  - Root-specific notion of “priming queries”
- Joint RSSAC/SSAC task force has done the due diligence and made recommendation to proceed.
IDN

• Large, complex undertaking; DNS and root is only a very small part

• Statement from RSSAC
  – No problem with proposed test of standard delegations (NS records)
  – Please keep us informed as test plans and implementation go forward
  – RSSAC is happy to provide advice on DNS-specific technical aspects of test and deployment
  – Should aliasing become a requirement, RSSAC would work with ICANN to identify how to meet it
Odds and Ends

• RFC 2870
  – Last formal, public, official best practices, but:
    • Seriously obsolete
    • Can lead to misunderstandings about current provisioning and management standards
  – Several participants in revision

• Formalizing process
  – Vice chair appointed at previous meeting, ran Prague agenda. Jun Murai remains as chair, Matt Larson is vice-chair.
  – Work item for Chicago: succession plan
Administrivia

• Next meeting in conjunction with IETF 66, July 9
• Reviews/updates expected:
  – IDN (as requested by ICANN)
  – Operations
• Usual URLs:
  – www.rssac.org for committee-maintained content
  – www.root-servers.org for some technical information
  – http://www.icann.org/committees/dns-root/ for ICANN-maintained content (this is under revision as part of the new website launched this week)