Lameness in the Reverse Tree

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Overview

- Introduction

- Lameness on ns.ripe.net

- General Lameness in RIPE region in-addr.arpa

- Going forward and the future

- Input from the community

- Acknowledgements

Introduction

- Personal

  Manager IT Operations, started February 2006

- Project

  Became aware of some /16 lameness on ns.ripe.net
  Problem is being addressed.
  Opens up wider problem of general lameness.

Lameness on ns.ripe.net

- ns.ripe.net is secondary for all /16 reverses allocated in the RIPE NCC Service region.

- Configuration for ns.ripe.net is generated automatically from entries in the whois database.

- Lameness occurs for various reasons.
  Mis-configuration by zone admins
  Misunderstanding of RIPE NCC's delegation procedure.
  LIR/ISP change in ownership, merges, etc. (stale whois entries)

- Manual Assessment In Feb 2006
  Zones on ns.ripe.net.   3074
  Lame Zones Feb 2006   138
  Lame Zones Apr 2006   29

- Continuing to chase the remaining 29

General Lameness in RIPE region in-addr.arpa

- Lameness on in-addr.arpa is a general problem

- Work already being done on this in APNIC and ARIN

- Two sets of guide Statistics Gathered for 1 /8 (195.in-addr.arpa)

- Total Delegations 47331

    RIPE NCC – queried SOA records for all delegations within
    195.in-addr.arpa and found
    Lame delegations   4648   9.82%

    APNIC - used their pre-written software and found
    Lame delegations   6168   13.03%

- Difference in stats is due to different methods used for collection
  and probably different definition of what 'lame' means.

Going Forward and The Future

- RIPE NCC Will continue to assess and act on lame delegations for /16's on ns.ripe.net

- General in-addr.arpa lame delegations action is dependant on community input.

- Choices include but not limited to:
  Publish ongoing general statistics.
  Publish ongoing detailed statistics (name lame parties)
  Chase lame delegation offenders.
  Remove long term lame delegations.

- Its your choice

Input from the Community

- Please tell us.

    Do you see this is a problem (major / minor)

    Definition of lameness (A server is lame if a query of the SOA record of the DNS server does not provide an authoritative answer for the said record / ????)

    How would you like us to act on this

    Comments welcome now, in the halls and on dns-wg

Acknowledgements

- Thanks to APNIC for their input.

Questions?