Lame delegation status report

DNS Operations SIG
APNIC 210
2006, Perth
History of Proposal (from AMM16/17)

- Identify potential lameness
  - two points of test, AU & JP
- Test the DNS reverse delegation
  - 15 day test period
- Attempt to notify the domain holder
  - 45 day notice period
- Disable lame DNS reverse delegation
  - If not corrected at end of notice period
Policy Implementation

• First contact emails sent on 23/11/2004
  – Due diligence delay
  – Make sure contact is warranted and appropriate

• First ticket (tracking) created 23/11/2004
  – First ticket resolved with nameservers fixed 30/11/2004 (7 days later)

• First lame name servers undelegated 08/01/2005
Status as of Feb 20, 2006

Corrected Reverse Domains
Domains with no errors
Remaining Lame domains
Policy effectiveness

Date
- 2004/01/01
- 2004/05/08
- 2004/09/13
- 2005/01/19
- 2005/05/27
- 2005/10/02
- 2006/02/07

Number of domains affected
Key points

• Reduction in lame percentage
  – 18.66% on 01/08/04
  – 16.34% on 15/02/05
    • Only admins with <5 lame domains contacted
  – 8% on 25/08/05
    • After process established for >5 lame admin
  – Semi-constant thereafter.

• Ongoing process
  – Time to affect a change for any newly lame domain is 60 days
  – APNIC continually monitoring
  – IPv6 yet to be included

• 16% Base (uncorrected) lameness remains
  – Communications/training/support issue
Lameness by Economy

distribution of lame reverse by economy

AU 30.90%
CN 15.41%
TW 8.38%
SG 6.60%
IN 6.24%
NZ 5.03%
HK 5.01%
ID 3.76%
TH 3.57%
Other 15.08%
Next Steps?

• Policy appears to have achieved its maximum effect
  – Time to consider additional activity

• APNIC Hosted secondary DNS services:
  – Hosted on reliable, managed servers
  – Potential choices of HK, JP, AU, USA
  – Depends on improvements in DNS provisioning
  – Need automated processes to configure
    • New MyAPNIC facility, DNS mgt framework
  – Current DNS activities will underpin
    • XML/REST architecture work
      (see following presentation)
Questions?