



Lame Delegation Control

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Lame Delegation Control

Current Procedures

- Accept delegation only on correct configured servers
- Check (at least)
 - correct delegations weekly
 - Lame delegations every 2 days
- Report at Whois
- Report to contacts twice a month for lame delegations lasting more than a week



Lame Delegation Control

“Lame” definition

- Executes a non-recursive SOA query at delegated servers.
 - NON AUTH-answers
 - Unknown domain name
 - Unknown host
 - ServFail
 - Query/Connection Refused
 - NOT SOA
 - CNAME
 - SOA Version
- On multi-zone delegations a single delegated server for one of the zones makes it as lame as the type of the prevailing error.



Lame Delegation Control

Whois sample out-put

```
inetnum:      200.30.128/19
status:       allocated
owner:        NEWCOM AMERICAS
ownerid:      GT-NEAM-LACNIC
responsible:  Manuel Noriega
address:      13 CALLE 3-40 ZONA 10, EDIFICIO ATLANTIS OFICINA 1, 1, 1
address:      01010 - Guatemala - GT
country:      GT
phone:        +502 3661588 []
owner-c:      NEA2
tech-c:       MAN
inetrev:      200.30.158/23
nserver:      NSGT1.NEWCOM-NS.NET
nsstat:       20031108 UDN
nslastaa:     20020830
nserver:      NSSV1.NEWCOM-NS.NET
nsstat:       20031108 UDN
nslastaa:     20020830
nserver:      NSHN1.NEWCOM-NS.NET
nsstat:       20031108 NOAA
nslastaa:     20020830
remarks:      ADDRESSES WITHIN THIS BLOCK ARE NON-PORTABLE
created:      20010510
changed:      20020718
```



Lame Delegation Control Statistics

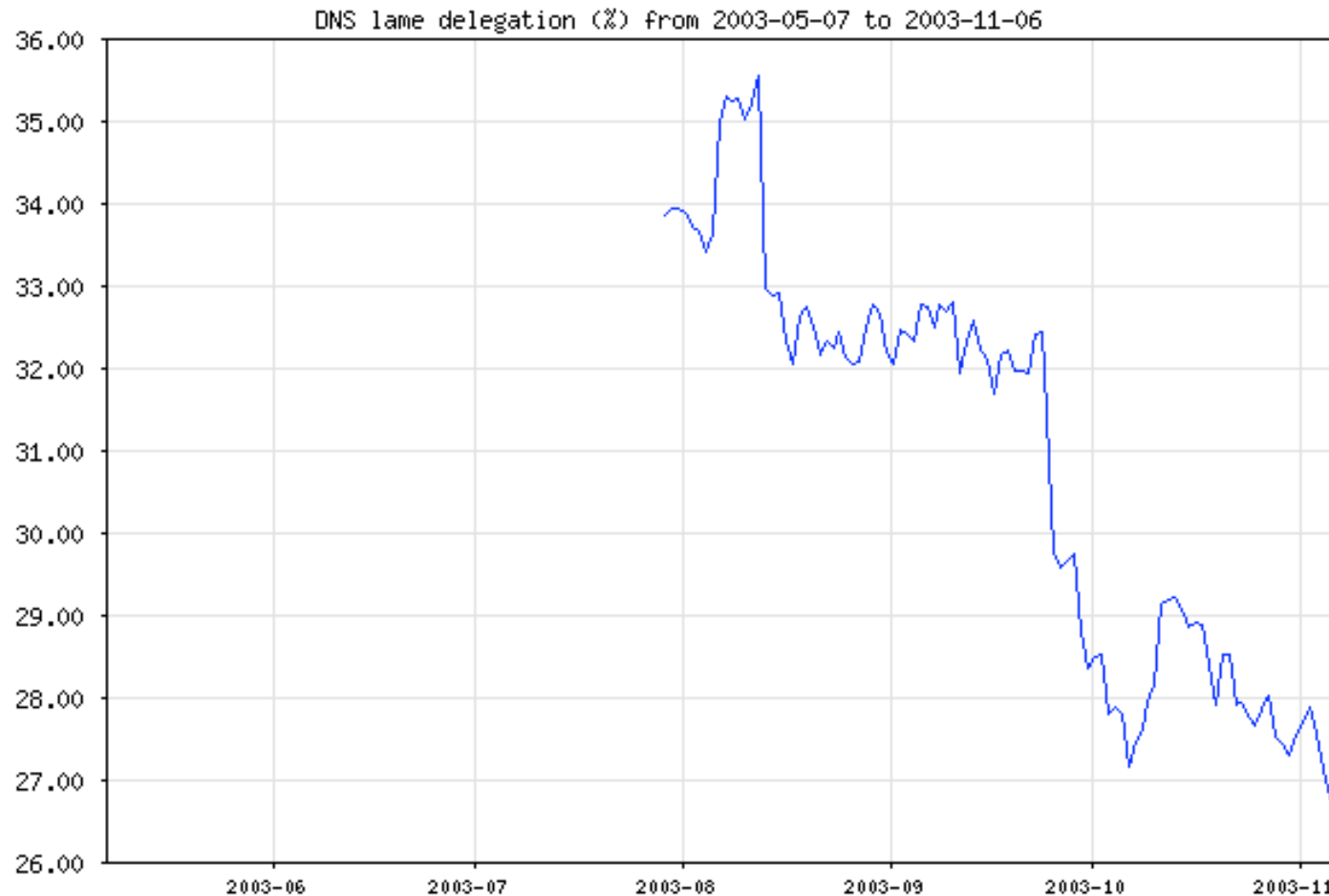
% of delegated servers

- 03/Dec/2002
45.2% (2393 in 5299)
- 26/Jun/2003
34.9% (1947 in 5578)
- 06/Nov/2003
26.7 % (1603 in 6006)
 - UDN 18.7%
 - UH 2.8%
 - NOAA 1.7%
 - CNAME 0.5%
 - FAIL 1.1%
 - Q/REFUSED 1.4%
 - ZONE_NOT_SYNC 0.5%



Lame Delegation Control Statistics

updated daily at http://lacnic.net/en/lame_delegation.html



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Lame Delegation Control

Next Step

- Community policy enforcing the removal of lame delegations (LACNIC policy process)
- Check NS records correctness and glue absence.
- Possibly adopt or work to define a “standard” for lame delegation.



Lame Delegation Control Questions

