Registry Benchmarking

ccTLD DNS Pilot Survey Oct 2007

Presentation to APTLD
Bangkok

Benchmarking

- Definition: “a structured approach for identifying the best practices from industry and government”
- Definition: “searching for the best practices or competitive practices that will help define superior performance”
- Definition: “identifying processes and results that represent best practices and performance for similar activities”

Background

- Why?
  - A Benchmarking Pilot - hope to extend survey to other participants now initial survey is complete
  - 12 invitees – 7 responses
  - Respondents expressed interest at Wellington meeting of ICANN
  - Not a random sample
  - Respondents chosen to reflect geographical diversity, and diversity of size of domain name space

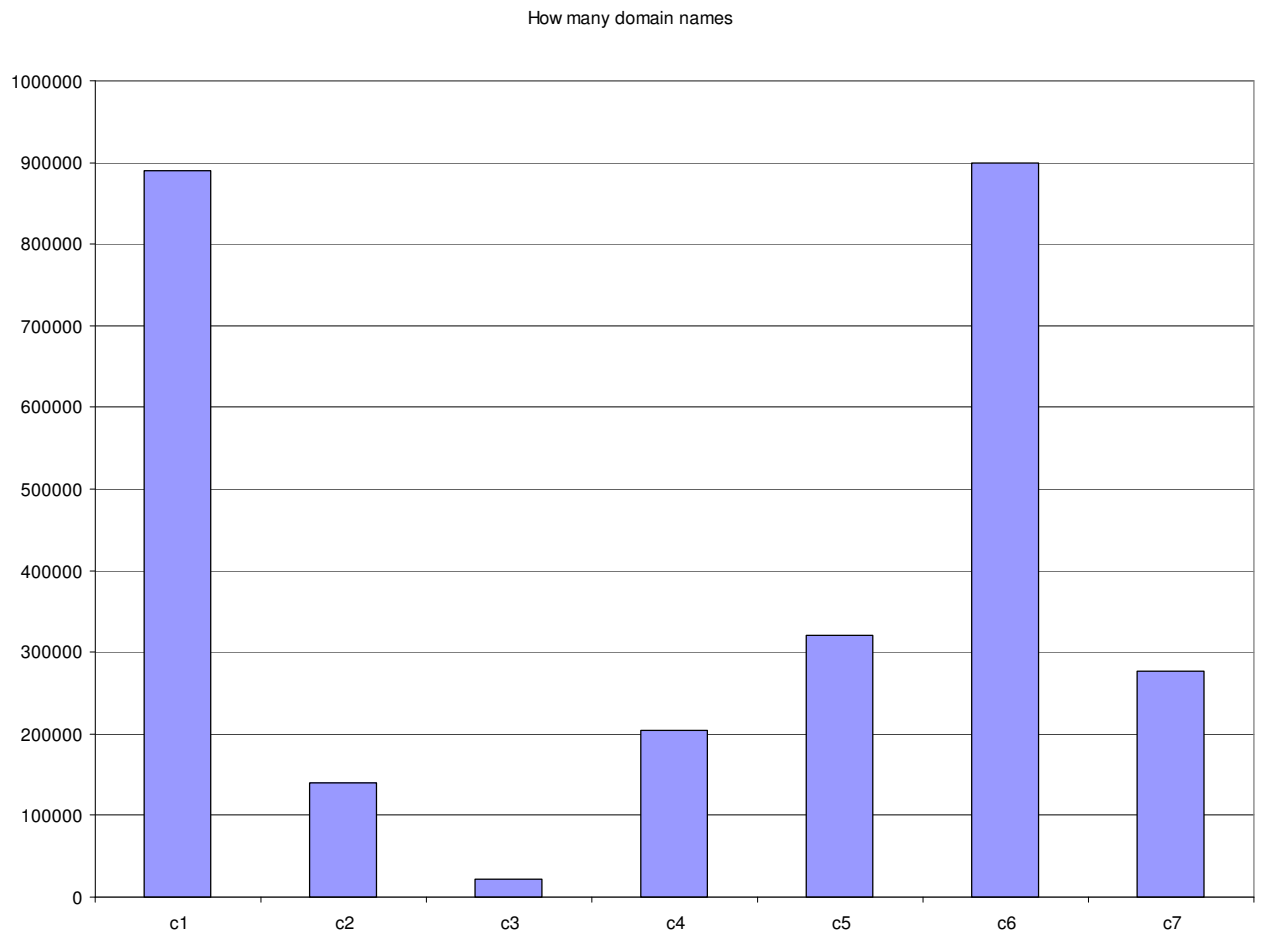
Methodology

- Survey request emailed
- Responses received from survey page
- Results collated by Ernst & Young
- Booklet of results published in June 2007
- Initial presentation of results to San Juan meeting June 2007
- Now an online survey

Domain sizes

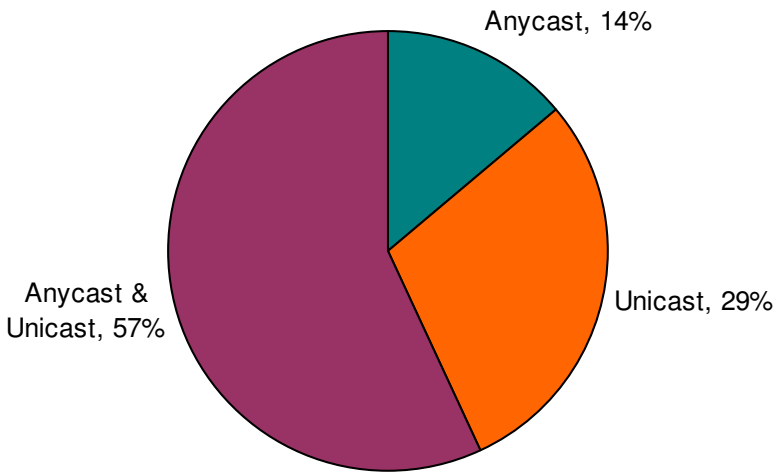
Of the respondents (n=7)

- Size of domain name space varied from 22,000 to 900,000 names



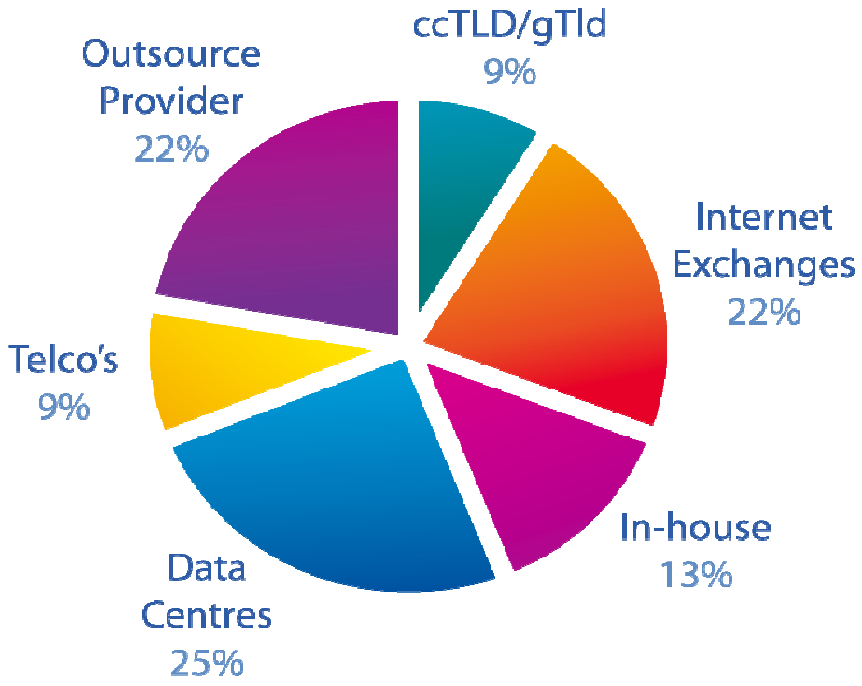
DNS Service

Most ccTLDs use both Anycast and Unicast to implement DNS service



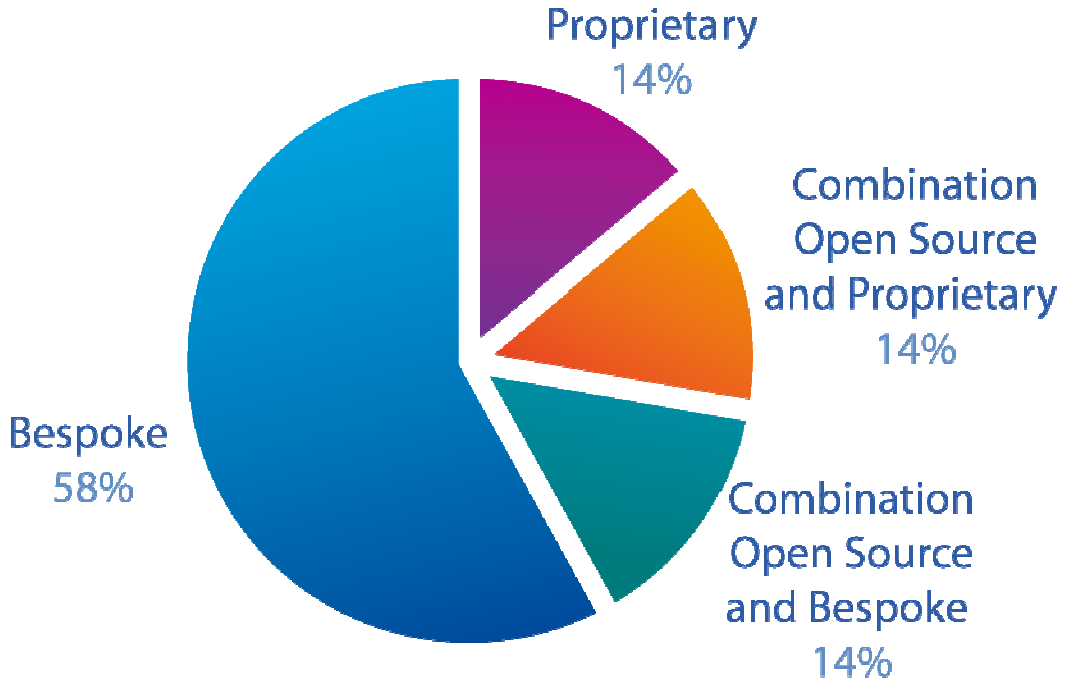
Server locations

Servers are located in a variety of environments, with network accessibility and diversity being key to decisions about location



Software cont.

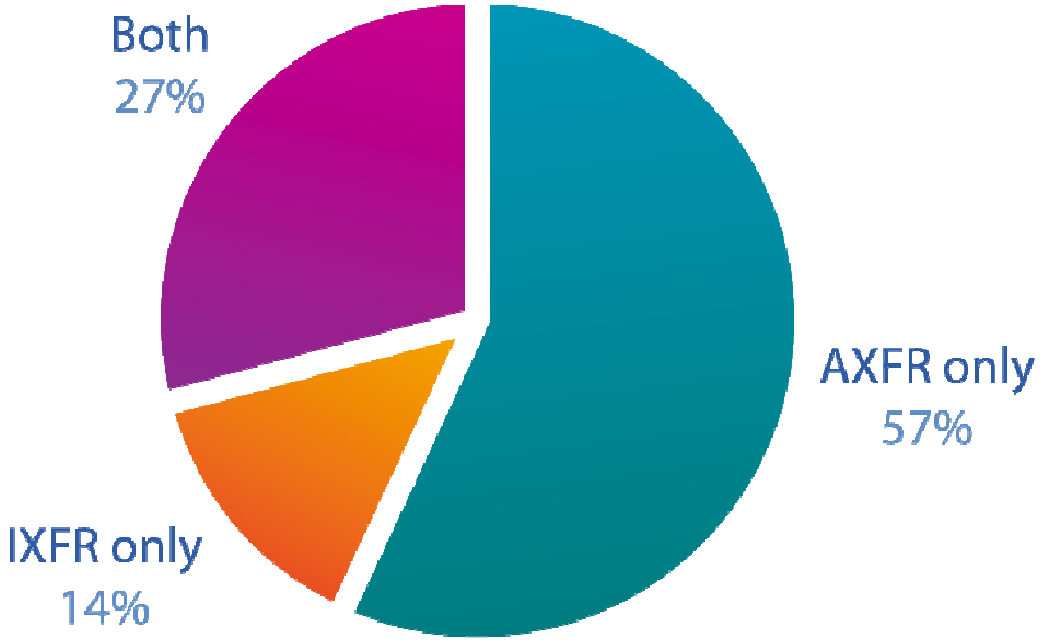
Most registries use bespoke software to monitor DNS service, either alone, or in conjunction with open source software.



Zone transfers

Most respondents are using AXFR for zone transfers

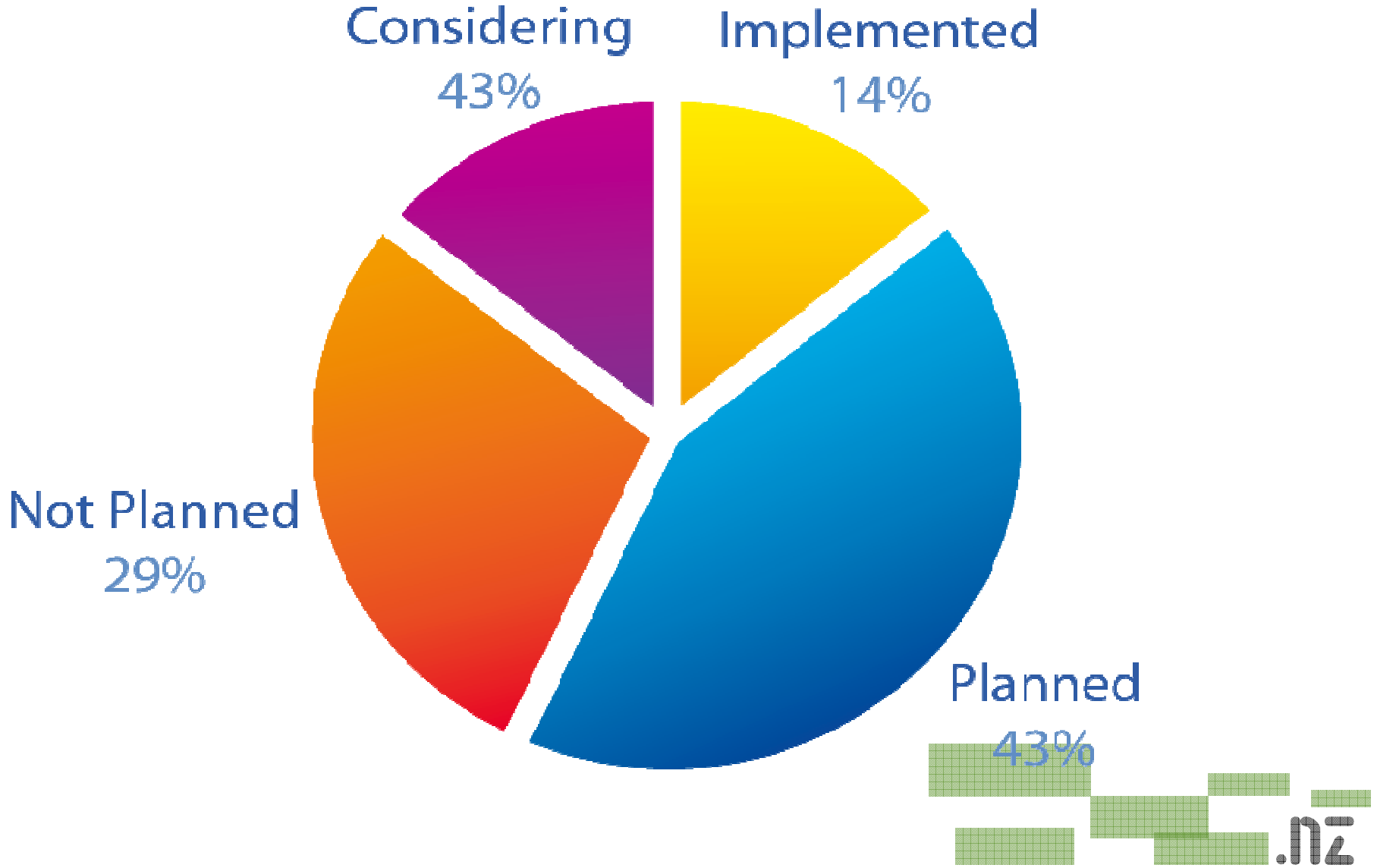
All respondents update the zone periodically – two also update dynamically



Security

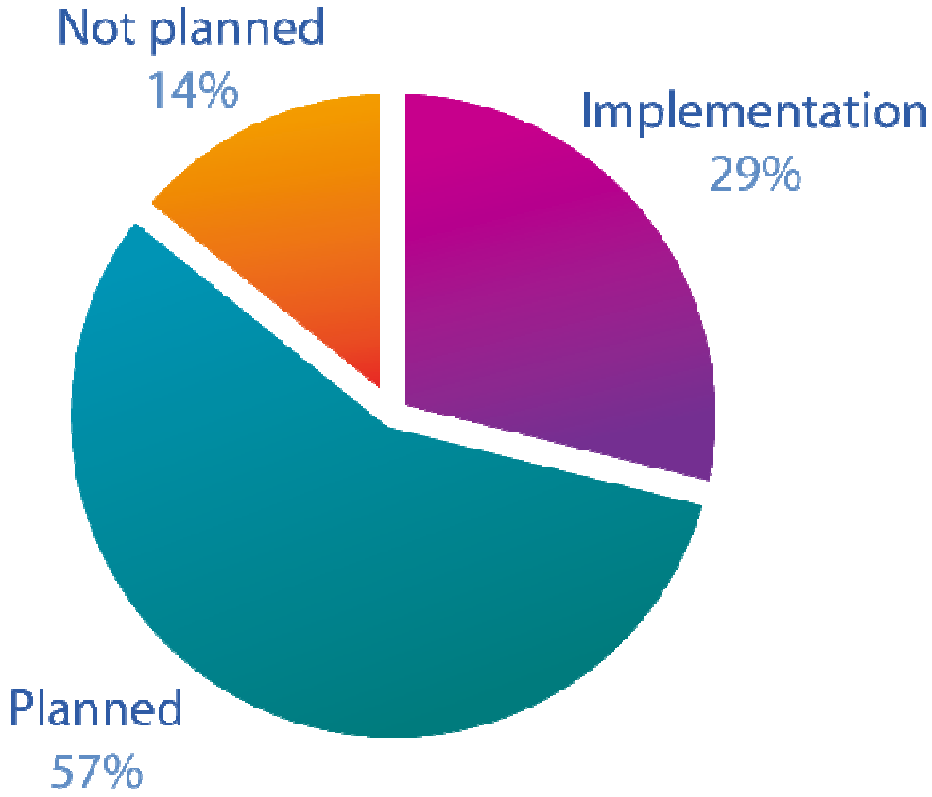
- More than half of the respondents sign the zone using TSIG. The remainder do not sign the zone.
- 1 has implemented DNSSEC.
- 4 respondents plan to implement within the near future (<2 years).
- 2 respondents are not planning to implement DNSSEC within the next 2 years.

Implementation Of DNSSEC



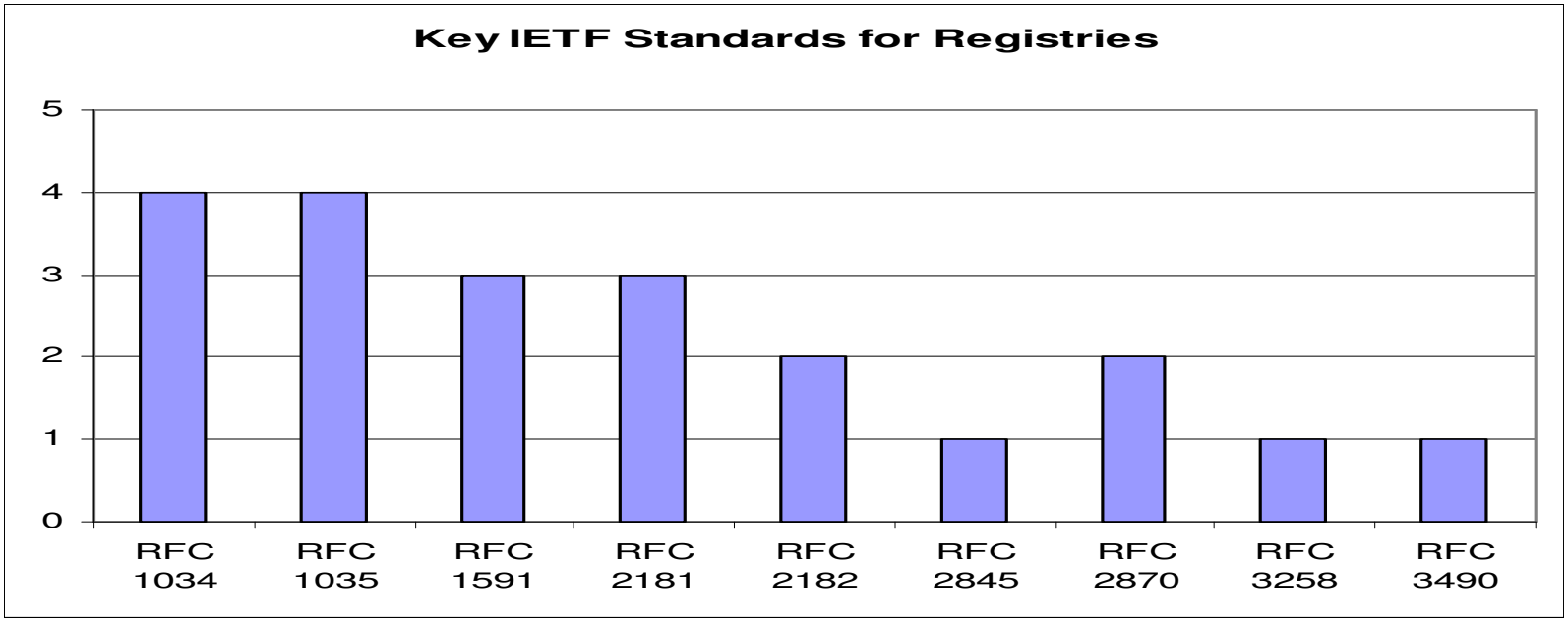
IPv6

All but one respondent intends to implement an IPv6 service before the end of 2008.



IETF Standards

- All registries agreed that standards for the management of registers were important.
- 1 respondent commented that there was no specific standard that applied to the operation of a registry.



If you would like to know more

- survey@registrybenchmarking.co.nz
- Survey questionnaire is now available online - see speaker for details – logins are available
- If further responses are received, additional analysis will be undertaken and results updated.

Contact us

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