AP TLD Update

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Overview

• A quick look at the DNS in the Pacific
• Items of interest
• Way forward
The Pacific CcTLDs

• 25 CcTLDs

• AS, CK, CX, FM, FJ, GU, KI, MH, MP, NC, NF, NR, NU, PF, PG, PN, PW, SB, TK, TO, TV, VU, WS, AU, NZ
Quick Overview

- Number of CcTLDs: 25
- Sponsor In Country: 25
- Doesn’t seem to operate any DNS: 20
- Doesn’t seem to have NS in Country: 15
- Servers not Diverse: 10
- Use Anycast Technology: 5
- Discrepancies between TLD and ROOT!: 5

- 0 - 25
- 0 - 25
- 0 - 25
- 0 - 25
- 0 - 25
- 0 - 25
- 0 - 25
Interesting Issues

• All 25 CcTLDs have addresses registered in country as Sponsoring organisations.

• Is this really the case???
Not operating any of their own DNS

• 5 CcTLDs
• Is this an issue?
• What about learning the skill sets?
  – Depends on local situation/needs
No name server in country

• 4 CcTLDs
  – What happens to local users of CcTLD?
  – Response times and resiliency!
Servers not topologically diverse

- 3 CcTLDs
- Single point of failures on path to DNS servers.
- What happens when (not if) that point fails.
Root and TLD servers say different things!

• 7 CcTLDs
  – This is not a good thing!
  – Introduces possibilities for confusion and for error.

  – Need to keep changes up to date in Root via IANA!
Advancements

- 8 CcTLDs have IPv6 ready NSs
  - Operating Own IPv6 in country 1 (.FJ!)

- 5 CcTLDs Use Anycast technology

How many are DNSsec ready…..?

Finally first root server placed in pacific!
Way Forward

• A role for APTLD?

• Outreach to those who may need help?

• Someone locally might want to keep track of the state of the DNS in Pacific?
Questions?

Thank You