

gTLD nameservers: a few very quick observations

Paul Hoffman
DNS-OARC 25

Disclaimer

- We have just started to do this analysis, and didn't expect to be saying anything at this meeting
- But we have collected a bit of data that indicates that there is more interesting results to be found

Dataset

- All of the gTLD zone files
- From about a week ago
- About 3 million NS records
- Of those, about 700k are not glue records
 - Common example: a name in .com whose NS records are in .net

Do those names exist?

- For the whole NS set:
 - 68% are good, 19% bad, 13% timeouts
- For the records that are not glue records
 - 73% are good, 25.5% bad, 1.5% timeouts

We should do more research

- Why so many bad names?
 - Registry / registrar interactions (and lack thereof)
 - Registrants abandoning
 - EPP
- Why are there such big differences between these two types of NS names?
- Are the timeouts the same from different locations in the world?
- Can we categorize the timeouts well enough to maybe reduce them and help out the recursive resolvers?
- Are there similar patterns in ccTLDs ?
- Lots more to be added