Related Domains By DNS (RDBD)
draft-brotman-rdbd-02

Alex Brotman & Stephen Farrell
IETF105, Montreal, July 2019
Summary

- Declare or disavow a relationship between names in the DNS
  - New RRTYPE (RDBD)

- Does not imply trust nor other semantics

- Tag field for +/- and to allow later extensibility

  \[
  \text{dept-example.com. IN 3600 RDBD 1 example.com.}
  \]
  \[
  \text{dept-example.com. IN 3600 RDBD 0 bad-example.com.}
  \]

- Optional signature mechanism modelled on DNSSEC
Use Cases

- Anti-abuse analysis
- Marketing department uses outside vendor
- Creating new domains
- Chart relationships between absorbed entities
- Internet surveys/research
- Independently operating regional offices
Changes

- Based on Feedback from IETF104:
  - Added negative assertions via 2nd rdbd-tag value
  - Relating domain Name → Name or URL
- Didn’t change back to DKIM-like syntax for RR value but might in future
- Scripted up sample generation
- Git repo for draft and sample generation code: https://github.com/abrotman/related-domains-by-dns
Our goal: progress (a flavour of) this if it’d be deployed

Questions/Comments?

Draft: draft-brotman-rdbd-02
Discussion to date has been on old DBOUND list: dbound@ietf.org