

# DELEG for DBOUND

IETF 119

New DNS Delegation BoF

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# Different Types of Domain Boundaries

- Administrative / organizational (policy) boundaries not easily expressed in DNS
- **Parent** may want to declare **that it governs policy** for its children
  - Such as DMARC anti-spam policies under .bank
- **Parent** may want to declare **that it doesn't govern policy** for its children
  - Addressed by the Public Suffix List (out of band)
- **Child** may want to **declare itself independent** of the parent's policies
  - Such as HTTP cookie scoping under a public registry that doesn't declare itself as a public suffix
- These boundaries may or may not coincide with DNS delegations
  - co.uk is a zone cut under uk (but not an organizational boundary)
  - **Organizational (policy) boundary may exist even without a zone cut**
    - e.g. s3.amazonaws.com

# Better Boundaries with Better Delegations?

→ Could “better delegations of the future” help express these various flavors? ←

For parent-declared boundaries:

- Could there be “policy-only” delegations?
  - only key=value pairs, without creating a zone cut / new child apex?
    - `customer.s3.amazonaws.com. IN <type> policy=sovereign`
    - `example.bank. IN <type> policy=enforce-DMARC`
    - ... and **allow combining with other attributes** (= facilitate zone cut at same boundary)

For child-declared boundaries:

- If delegation parameters are somehow populated from the child:
  - Could the child assert its boundary somehow?