CAA BIS

Phillip Hallam-Baker
Deployment = Issues

- CABForum mandates CAA validation from Sept 8th 2017

- CAA record discovery
  - Current text is ambiguous
  - Original intent is obsolete
  - Better proposal
The discovery issue

- DNS protocol includes pointers (CNAME, DNAME)
  - CNAME is used for two types of delegation
    - Technical: [www.example.com](http://www.example.com) CNAME y23492.mycdn.com
    - Administrative: web.example.net CNAME web.example.com
  - CNAME does not distinguish purpose

- Discovery
  - If technical: Observe records at CNAME target only
    - y23492.mycdn.com
  - If administrative: Follow pointer, treat as same as target
    - web.example.com, example.com

- Solution? Use prefixed record.
Charter text proposed:

- Specify a discovery mechanism for CAA records to replace the one described in RFC 6844.

RFC 6844 describes the mechanism by which CAA records relating to a domain are discovered. Implementation experience has demonstrated an ambiguity in the current processing of CNAME and DNAME records during discovery. Subsequent discussion has suggested that a different discovery approach would resolve limitations inherent in the current approach.

Milestone: RFC 6844 BIS April 2018