Name Collision Analysis Workflow

As of 15 March 2022

Goals of the Workflow

- To ensure that name collisions can be assessed
  - Requires name collisions to be visible, if they exist
- To ensure there is an opportunity for a mitigation or remediation plan to be developed
  - Requires the root cause of name collisions be investigated

Name Collision - Critical Diagnostic Measurements

- Query Volume
- Query Origin Diversity
  - IP distribution
  - ASN distribution
- Query Type Diversity
- Label Diversity
- Other characteristics
  - Open Source Intelligence (OSINT) of string (and labels) used

Name Collision Analysis Workflow

1. Applicant prepares initial assessment of collision risk
2. Applicant submits application
3. Active Collision Assessment
4. Enhanced Controlled Interruption
5. Board gets final package for review

1. Applicant Assesses Risk

- Assumes passive data publicly available

- ICANN will likely be source of passive, factual data

- DNS-based only

- *Applicant prepares and submits this initial assessment with application*

2. Applicant Submits Application

3. Active Collision Assessment

- Goal is to make name collisions visible
- Visibility allows for a more accurate assessment of impact and potential harm
- *Can we do this with low risk?*
- Previously done with "Controlled Interruption (CI)"
  - A primary goal of CI has been to alert the client
  - Accomplished this by disrupting existing DNS behavior
  - Not a low risk choice
- *SSAC has an alternate proposal*
  - Details are forthcoming
- Applicant revises collision assessment and submits addendum
  - Influence decision regarding need for mitigation or remediation

4. Enhanced Controlled Interruption

- Goal is to prepare a mitigation or remediation plan (or both)
- Must be able to investigate source of name collisions
- Must capture additional information sufficient for root cause analysis
  - *Discussion is needed regarding what additional information is required*
- Applicant executes a root cause analysis
  - Develops either or both of a mitigation plan and remediation plan
- Applicant submits addendum to application

5. Board Reviews Complete Application

Discussion