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