

# Name Collision Analysis Workflow

As of 9 February 2022

## Name Collision Analysis Workflow

1. Review risk of applying
2. Application submission
3. Name Collision Assessment
  - a. Board decision regarding Controlled Interruption
  - b. Capture a picture of the collisions
  - c. Applicant/Tech Review Team prepare addendum to application
4. Enhanced Name Collision Assessment
  - a. Board decision regarding Enhanced Controlled Interruption
  - b. Capture a picture of the collisions
  - c. Applicant/Tech Review Team prepare addendum to application
5. Board gets final package for review

## Capturing a Picture of Collisions (1 of 3)

- Picture 1 as part of application
  - Assumes passive data generally available
  - DNS-based only
- Picture 2 after Controlled Interruption (CI)
  - Neutral party to conduct CI
  - DNS-based only
- Picture 3 after Enhanced Controlled Interruption (ECI)
  - Neutral party to conduct ECI
  - DNS and whatever becomes visible

## Capturing a Picture of Collisions (2 of 3)

- Critical Diagnostic Measurements
  - Query Volume
  - Query Origin Diversity
    - IP distribution
    - ASN distribution
  - Query Type Diversity
  - Label Diversity - expect diminishing value
  - Other characteristics - variable value
    - Open Source Intelligence (OSINT) of string being used

## Capturing a Picture of Collisions (3 of 3)

- Develop assessment of impact as a function of both volume and diversity
- Find the **impact**
  - Do we know why it's leaking?
  - What is the source of the collision?
  - When did collisions start? - time window for analysis
  - What could and would the impact be if delegation is approved?
- For pictures 2 and 3
  - What did happen?
  - Conduct outreach and report
  - Consider possible mitigation strategies

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## 1. Review risk of applying

- Are name collisions present?
  - Review public information
    - Pre-publication at ICANN of top N list
    - ITHI
    - IMRS Hedgehog
  - DITL data review
  - Other near-real-time data?
- What should applicant include in their analysis?

## 2. Application submission

- Technical package with name collision analysis must be included
  - Only if name collisions present?
  - Draft mitigation plan?
  - Draft remediation plan?
  - Trending data?
- *Subsequent procedures and applicant guidebook process drives at this point*
  - *Out of scope for discussion group*



### 3. Name Collision Assessment

- Board decision regarding controlled interruption
  - Requirement is nothing in the root without visibility by the Board
  - Does not guarantee approval of permanent delegation
  - Relationship to contention sets?
- Conduct Controlled Interruption
  - Neutral party
  - Temporary delegation - need process to revert
- Capture a picture of the collisions
  - Provides data to both Applicant and Technical Review Team
  - Applicant prepares addendum to application
  - Technical Review Team prepares addendum to application

## 4. Enhanced Name Collision Assessment

- Board decision regarding enhanced controlled interruption
  - Requirement is nothing in the root without visibility by the Board
  - Does not guarantee approval of permanent delegation
  - Relationship to contention sets?
- Conduct Enhanced Controlled Interruption
  - Neutral party
  - Temporary delegation - need process to revert
- Capture a picture of the collisions
  - Provides data to both Applicant and Technical Review Team
  - Applicant prepares addendum to application
  - Technical Review Team prepares addendum to application

## 5. Board gets final package for review

- Final package contains
  - All application materials defined elsewhere
  - As many as (three times two) name collision assessments
- At least one (more?) assessment from applicant must include
  - Mitigation proposal
  - Remediation proposal
- At least one (more?) assessment from Tech Review Team regarding:
  - Mitigation proposal
  - Remediation proposal
- Board makes final decision