

Technical Review Team

As part of the proposed name collision workflow, the discussion group has recognized the need to have a Technical Review Team (TRT) that will serve four roles and functions.

- Assess the visibility of name collisions - at three points in time
 - Purpose is identify high risk strings, supported by available evidence
 - Use data available prior to root delegation: L-root, ITHI, passive, DITL, and other contextual data as may be available from time to time
 - Use data captured during passive collision assessment collection: CDMs, other contextual data as may be available from time to time, historical baseline comparison against known trends and data gathered over time
 - Use data captured during active collision assessment collection: additional CDMs, e.g., web, email, and others that may have been identified by PCA
- Document data, findings, and recommendation(s)
 - Summarize data seen, measured, and assessed
 - Use data from name collision visibility assessment above
 - Need to carefully document the data studied and conclusions drawn
 - Provide 1 or 2 degrees of anonymized/aggregated data to Applicant
 - Might be an activity of the Neutral Third Party or a shared activity with the Neutral Third Party?
 - Share assessment of findings and recommendations with Applicant
 - Includes an open dialogue and discussion with Applicant
 - Includes findings and recommendations related to mitigation and remediation
 - Provide recommendations for trial delegation, ACA, and final disposition as appropriate
- Assess mitigation and remediation plan
 - Identify need for a mitigation and remediation plan
 - Done during name collision visibility assessment above
 - Applicant prepares mitigation and remediation plan
 - TRT shares documentation and visibility as described above
 - Evaluate how the mitigation and remediation plan are responsive to the technical issues observed from the CDMs
- Emergency response
 - Monitor Neutral Third Party activities
 - Coordinate as necessary to revert delegation if necessary

Neutral Third Party

- Operate an authoritative DNS name server for the proposed TLD
 - Capable of developing, configuring, and supporting required name server functionality
 - TBD synthetic NXDOMAIN response behavior
 - Wildcard answers for ACA
 - Capture and log DNS queries

- Timestamp, Qname, Qtype, SrcIP, Protocol
 - Coordinate with other passive measurement entities (Ad measurement, Probes)
- Operate Active Collisions Assessment environment
 - Capable of developing, configuring, and supporting required honeypot functionality
 - Web (WPAD)
 - Email
 - SSH
 - Capture and log connection data
- Log processing and analysis
 - Basic summary statistics (e.g., queries/day, number of distinct IPs, etc.)
 - Name collision tailored measurements - CDMs
 - Ad measurement DNS query identification, extraction, and data sharing
- Emergency response
 - Coordinate with TRT to manage to revert delegation as needed