ICANN

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Singapore

Name Collision Risk Mitigation for New TLDs

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Name Collisions in ccTLDs

- Name collision risk mitigation has, so far, focused on new gTLDs

- Name collisions also happen in new ccTLDs, both ASCII and IDN

- In February 2014 ICANN provided ccNSO Chair with a briefing paper on the subject

What is a Name Collision?

An attempt to access an Internet resource identified by a name in either:

a) a non-DNS protocol environment;

b) a private DNS environment; or

c) the public DNS

that is directed to a resource identified by the same name in any of the other environments

Chronology of Board Resolutions

- On 18 May 2013, the ICANN Board directed staff to commission a study on the use of TLDs that are not currently delegated at the root level of the public DNS in enterprises

- On 7 October 2013, the ICANN Board New gTLD Program Committee adopted the New gTLD Collision Occurrence Management Plan

- On 21 November 2013, the Board directed staff to **develop a long-term plan to manage name collision at the root**, and to work with the community to develop a long-term plan to retain and measure root-server data

New gTLD Collision Occurrence Management Plan

1. Deferring delegating *.home* and *.corp* indefinitely

2. Outreach Campaign to raise awareness

3. Internal Name Certificate issue mitigation

4. Alternate Path to Delegation for eligible strings (temporary)

5. Name Collision reporting tool

6. Name Collision Occurrence Management Framework and Assessment (long-term)

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Name Collision Outreach Status

- Information hub:
  - http://www.icann.org/namecollision

- Developed Name Collision Information kit

- Public mailing list (nc-info@icann.org) to coordinate outreach efforts with community members
  - https://mm.icann.org/mailman/listinfo/nc-info

- Articles published in 13 countries, covering 6 different languages

- Made contact with 105+ IT industry associations across Africa, Asia Pacific, Europe, Middle East, Latin America, North America

Internal Name Certificate Issue Mitigation

- 120-day period of no activation of names under the TLD from signing of new gTLD Registry Agreement

- Only allowed activation allowed is "*nic.<tld>*"

- Allocation/registration of names is allowed

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Alternate Path to Delegation

- Temporary measure while the Name Collision Occurrence Management Framework is developed

- Eligible new gTLDs can proceed to delegation by blocking from activation the names in the SLD block list provided by ICANN

- SLD block list comprises of all SLDs observed in queries to root servers in the DITL and other relevant datasets

Name Collision Reporting Tool

- Purpose: failsafe mechanism to mitigate the risk that name collisions not observed in the study dataset occur and cause severe impact

- Enables an affected party to report demonstrably severe harm as a consequence of name collision

- ICANN receives reports and coordinates with registry operator to ensure a proper response

- In effect for the first 2 years after new gTLD delegation

Draft Name Collision Occurrence Management Framework

- Public comment from 26-Feb to 21-Apr 2014

- Permanently reserve *.corp*, *.home*, & *.mail*

- "Controlled Interruption" zone (127.0.53.53)
    - Newly delegated TLDs: 120 days from delegation "no activation" period with wildcard record under TLD

    - Already delegated TLDs: 120 days with A and SRV DNS records for names in SLD block list

Current Plan for Handling Name Collisions in New ccTLDs

Until advice is received from ccNSO, ICANN plans to:

- Provide the same kind of interim report that new gTLDs received for the Alternate Path to Delegation

- It will remain the responsibility of the local Internet Community and the ccTLD manager to either:

  1) proceed to delegation while temporarily blocking the SLDs identified in the report;

  2) temporarily defer delegation until receipt of their full collision occurrence assessment and implementation of the measures described; or

  3) some other course of action

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Future Handling of Name Collisions in New ccTLDs

- ICANN is requesting the ccNSO to review the name collision issue and its implications for new ccTLDs.

- ICANN looks forward to collaborate with the ccNSO on the matter and is available to help and answer any questions that may arise.

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Thank you

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