JIG (Joint ccNSO-GNSO IDN Group) Meeting

ICANN Dakar

October 24, 2011

Background of the JIG

- Charter adopted by both the ccNSO and GNSO Councils:
  - http://ccnso.icann.org/workinggroups/jiwg.htm
- The purpose of the JIG is to identify and explore issues and topics of common interest of relevance to both the ccNSO and GNSO and report on such an identified issues to the respective Councils and propose methodologies to address the issues

Charter Extended

- GNSO
  - July 21, 2011
  - http://gnso.icann.org/meetings/minutes-council-21jul11-en.htm
- ccNSO
  - August 23, 2011
  - http://ccnso.icann.org/workinggroups/minutes-council-23aug11-en.pdf

JIG Discussions

- Bi-Weekly Conference Calls (since March 2010)
- Issues of Common Interest identified:
  1. Single Character IDN TLDs
  2. IDN TLD Variants
  3. Universal Acceptance of IDN TLDs
- Face to face meetings
  - Brussels / Cartagena / San Francisco / Singapore
  - Workshop on Single Character IDN TLD at Cartagena
- ICANN Dakar:
  - Monday (Oct 24): 16:00 - 17:00 – Room: B5/6

Agenda

- Universal Acceptance of IDN TLDs (~30min)
- Single Character IDN TLDs (~15min)
- IDN TLD Variants (~15min)

Universal Acceptance of IDN TLDs

Drafting of Initial Report

Target to be published shortly after ICANN Dakar

Background & Related Works

- Introduction of New gTLDs longer than 3 characters in 2000 (and 2004)

- Introduction of IDN ccTLD Fast Track in 2010

- August 2003: SSAC Report
  - Support Of New Top-Level Domains By Internet Infrastructure Operators And Application Providers
  - http://forum.icann.org/mtg-cmts/stld-rfp-comments/general/doc00004.doc

SSAC Recommendations:

1. ICANN should develop an advisory regarding support for new TLDs and GNSO constituencies should publicise this advisory.

2. Recommend that the IAB consider issuing an informational RFC advising of the issue.

3. Internet infrastructure providers should test the capability of the software to support new TLDs.

4. Internet software application developers should review and upgrade their software.

5. A central repository of known commonly used software that has compatibility problems.

6. ICANN should examine compatibility problems with the introduction of new TLDs in 2001 as a topic in its Proof of Concept study.

SSAC Recommendations Implementation:

1. ICANN should develop an advisory regarding support for new TLDs and GNSO constituencies should publicise this advisory.

   - Oct 2004: TLD Acceptance Forum: http://forum.icann.org/lists/tld-acceptance/

   - Mar 2006: Universal Acceptance of All Top-Level Domains website: http://www.icann.org/en/topics/TLD-acceptance/

2. Recommend that the IAB consider issuing an informational RFC advising of the issue.

   - Feb 2004: RFC3696 Application Techniques for Checking and Transformation of Names http://www.ietf.org/rfc/rfc3696

SSAC Recommendations Implementation:

3. ICANN should examine compatibility problems with the introduction of new TLDs in 2001 as a topic in its Proof of Concept study.

4. Internet software application developers should review and upgrade their software.

  - Dec 2006 (Mar 2007) TLD Verification Tool: http://www.icann.org/en/announcements/announcement-2-22mar07.htm

SSAC Recommendations Implementation:

5. A central repository of known commonly used software that has compatibility problems.

6. ICANN should examine compatibility problems with the introduction of new TLDs in 2001 as a topic in its Proof of Concept study.

   - Aug 2004: Comprehensive Evaluation of the Introduction of the .aero, .biz, .coop, .info, .museum, .name and .pro gTLDs http://www.icann.org/en/announcements/ announcement-31aug04.htm

Background & Related Works

- Mozilla
  - Since 2006: better user experience of domain utilization on the browser for grouping, anticipating, analysing and sorting domain names and cookies
  https://bugzilla.mozilla.org/show_bug.cgi?id=342314
  - Public Suffix List project (http://publicsuffix.org/)
- Wikipedia
  - Since 2004:
  http://en.wikipedia.org/wiki/List_of_Internet_top-level_domains

Background & Related Works

- Mozilla IDN-Enabled TLD list project
  - http://www.mozilla.org/projects/security/tld-idn-policy-list.html
  - Mar 2005: https://bugzilla.mozilla.org/show_bug.cgi?id=286534
  - as a response to concerns of homographic attacks such as phishing names utilizing IDNs
- Other Relevant Developments
  - ICANN IDN Guidelines: http://www.icann.org/en/topics/idn/implementation-guidelines.htm
  - W3C Internationalized Resource Identifiers (IRI): http://www.w3.org/International/articles/idn-and-iri/
  - Internationalized Email Addresses (EAI): http://datatracker.ietf.org/wg/eai/charter/

Background & Related Works

- Unique Authoritative Root
  - IAB: Technical Comment on the Unique DNS Root RFC 2826: http://www.ietf.org/rfc/rfc2826
  - ICANN: ICP3: A Unique, Authoritative Root for the DNS http://www.icann.org/en/icp/icp-3.htm
- JIG Discussion and Public Comments
  - Single Character IDN TLDs
  - IDN TLD Variants
- VIP Draft Study Team Reports

Stocktaking of Policy Aspects

- Building on SSAC Recommendations
- Policy aspects as well as coordination roles that could be led by ICANN and the ICANN community
- Policies developed at and enforced by ICANN may not directly solve the issue of Universal Acceptance
- Certain areas of influence by ICANN along with supportive policies at ICANN can contribute to the promotion of the goal

Areas of Policy and Coordination

1. Are there policy aspects to be considered and/or policies to be implemented at ICANN?

2. Which organizations should ICANN work with on the issue and how should ICANN identify such

3. Which areas should ICANN focus its efforts and exert its influence on?

4. What types of work should ICANN and the ICANN community place its efforts and priorities on?

Areas of Policy and Coordination

1. Are there policy aspects to be considered and/or policies to be implemented at ICANN?
   a) Budgeting policies?
   b) Registry policies? IDN ccTLDs and/vs. IDN gTLDs?

- Allocation of budget specifically for the promotion of the Universal Acceptance of IDN TLDs
- Require that all IDN TLDs commit to promoting Universal Acceptance of IDN TLDs within their systems

Areas of Policy and Coordination

2. Which organizations should ICANN work with on the issue and how should ICANN identify such
   a) Industry, regional and related organizations
      i. Industry organizations, e.g. IDN SDC, etc.
      ii. Regional organizations, e.g. RIRs, ISP associations, etc.
      iii. IT related organizations, e.g. WITSA, etc.
   b) Emerging industry standards
      i. Public Suffix List currently maintained at Mozilla
      ii. Wikipedia TLD List

- How to identify the organizations and establish working relationship?
- How to identify emerging lists and establish working relationship?

Areas of Policy and Coordination

3. Which areas should ICANN focus its efforts and exert its influence on?
   a) Browsers and DNS Lookup tools and components
   b) Network infrastructure, hosting and email providers
   c) Network management and security tools
   d) Applications and databases (where domains, email addresses and/or URLs represents a data object maintained, e.g. user profiles, contact information, search engines, etc.)
   e) Registries, Registrars and RIR systems

- How to prioritize? What else should be included?

Areas of Policy and Coordination

4. What types of work should ICANN and the ICANN community place its efforts and priorities on?
   a) Participation in, support and/or oversight of emerging industry standards
   b) Development and promotion of tools and educational materials
   c) Document and maintain a set of "checklist" or guidelines for new IDN TLDs
   d) Organizing and supporting relevant events
   e) Support for IDN TLDs in relevant local initiatives

- Repository of known compatibility issues / software
- Develop educational materials for developers and infrastructure providers, etc.
- How to coordinate and maintain work?
- How to identify events and allocate budget?

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4. What types of work should ICANN and the ICANN community place its efforts and priorities on?

Single Character IDN TLDs

Process / Progress

- Initial Report completed:
  - http://ccnso.icann.org/workinggroups/jig-initial-report-26jul10-en.pdf
- Public Comment period completed:
  - http://www.icann.org/en/announcements/announcement-2-27jul10-en.htm
- Staff summary on comments completed:
  - http://forum.icann.org/lists/jig-initial-report/pdfaul7JXcqaa.pdf
- Draft Final Report published for public comments:
  - http://www.icann.org/en/announcements/announcement-04dec10-en.htm
- Staff summary on comments completed
  - http://forum.icann.org/lists/jig-draft-final-report/pdfQxF383O30Q.pdf

Final Report on Single Character IDN TLDs Completed

- Final Report Submitted to respective councils
  - http://ccnso.icann.org/workinggroups/jig-final-report-single-character-idns-30mar11-en.pdf
- Approved by GNSO Council: April 7, 2011
- Approved by ccNSO Council : May 10, 2011

Aug 25 Board Resolution

- http://www.icann.org/en/minutes/resolutions-25aug11-en.htm#5

1. Requests specific advice on security & stability aspects of this issue from the SSAC.

2. Requests the GAC to consider and provide specific advice on public policy aspects of this issue.

3. Requests specific advice on the end-user/consumer aspects of this issue from ALAC.

4. Directs the staff to consult with additional appropriate and knowledgeable community participants across various languages/scripts on this topic, and to provide the Board and community a report that reflects this input, to enable consideration by the Board on delegation of single character IDN TLDs.

5. Directs staff to publish a timetable for this work, clearly indicating that processes for delegation of single-character IDN TLDs will be made available **after the first gTLD application round and conclusion of IDN ccTLD policy work.**

Next Steps

- Continue to follow-up with Staff on implementation
- Response from JIG on the Board Resolution
  - Recommendation to ccNSO & GNSO Councils
  - Rationale on: processes for delegation of single-character IDN TLDs will be made available after the first gTLD application round and conclusion of IDN ccTLD policy work
  - Against ccNSO & GNSO policies and prior stated principles
  - Reconsideration

IDN Variant TLDs

Progress

- Initial Report (version 0.3) being drafted:
  - https://st.icann.org/data/workspaces/jig/attachments/joint_ccnso_gnso_idn_working_group:20101011160729-0-13292/original/JIG-IDN-Variant-InitialReport-0.3.pdf
- Work suspended in consideration of Staff work plan (as per the Board resolution on October 18:
  - http://www.icann.org/en/minutes/resolutions-25sep10-en.htm#2.5
- Work restarted after Cartagena meeting
  - Liaising with IDN VIP since San Francisco meeting
  - Observers on IDN VIP study teams
  - Observer on IDN VIP coordination team

Policy Aspects Identified (v0.4 – Mar 2011)

1. Requirements for a string to be considered an IDN TLD Variant (of its Primary IDN TLD)
   - Specifics to be discussed by IDN VIP
2. Types of IDN Variants
   - with respect to their allocation and delegation properties
3. Policy operatives corresponding to the types of IDN Variants
   - Under what conditions should IDN TLD Variants be included in the root
4. Requirements for zones directly managed by a TLD operator of an IDN Variant TLD
5. Adding IDN Variant TLDs
   - subsequent to initial delegation of a Primary IDN TLD

Types of IDN Variants based on Allocation / Delegation Properties

	Not Allocated	Allocated	
		Automatically Delegated (Together with Primary IDN)	**Optionally Delegated**
Not Delegated	**Blocked IDN Variants** (Reserved Variants)		**Other IDN Variants** (Reserved Variants)
Delegated (in DNS)		**Preferred IDN Variants** (Activated Variants)	**Zone IDN Variants** (Activated Variants)

Next Steps

- Continue to participate in the IDN VIP work
  - Liaison/Observer from JIG to IDN VIP coordination team
- Continue Discussion on Policy Aspects to be Considered
  - Consideration of IDN VIP Case Study reports
  - Identify if Policy development is required or existing GNSO and ccNSO policy recommendations are sufficient and if further policy implementation recommendations are needed

Thank You

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