JIG (Joint ccNSO-GNSO IDN Working Group) Meeting

ICANN  Buenos Aires
November 18, 2013
Agenda

• Next Steps
  – Universal Acceptance of IDN TLDs
  – IDN Variant TLDs
  – Single Character IDN TLDs

• Future Works
  – Form / Approach / ...
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
JIG Discussions

• Bi-Weekly Conference Calls (since March 2010)
  – Changed to Monthly Calls (since Prague: June 2012)

• 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 / Dakar / Costa Rica / Prague / Toronto / Beijing / Durban / BA
  – Workshop on Single Character IDN TLD at Cartagena
  – Workshop on Universal Acceptance of IDN TLDs in Beijing
Universal Acceptance of IDN TLDs

Initial Report Published Jan 6, 2012
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
Acceptability Issues Example
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name</td>
<td>Using IDN</td>
</tr>
<tr>
<td>Last Name</td>
<td>email</td>
</tr>
<tr>
<td>Your Email</td>
<td>someone@idndomain.中國</td>
</tr>
<tr>
<td>Re-enter Email</td>
<td>someone@idndomain.中國</td>
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<tr>
<td>New Password</td>
<td>⬜⬜⬜⬜⬜⬜</td>
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<tr>
<td>Gender</td>
<td>Male</td>
</tr>
<tr>
<td>Birthday</td>
<td>Aug 10 1981</td>
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</tbody>
</table>

Please enter a valid email address.
domains asia - Google Search

Search
About 23,500,000 results (0.22 seconds)

Web
Images
Maps
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More

Ads related to domains asia

ASIA Domain Registry - Register asia domain names
www.asiaregistry.com/
asia domain at Asia Registry

Domains asia - Register asia domains for 7.99€
www.eurodns.com/Asia-domain-names
Free DNS & email. Check & buy now!
Quick domain name search - Available domain extensions - Check our prices

Asia Domain Registration - Cheap | onlydomains.com
www.onlydomains.com/asia-domain
Asia Domains at Only Domains Free DNS Hosting and Redirects.
Asian Domains - European Domains - American Domains - African Domains

Asian Domains
www.marcaria.com/
Domain Registration in Asia
Asia Crunchy.sg.tw.in

ASIA Domain Name
www.netim.com/ASIA
Register your ASIA domain name
ICANN accredited registrar

Asia Domain Names
www.namecheap.com/Asia-Domain-N
★★★★★ 203 seller reviews
Get Free Email & URL Forwarding!
Buy Your Cheap Asia Domain Name!
375 people +1'd or follow Namecheap

$7 99 Domain Names
www.maddogdomains.com/
Register your domain today.
Free Blog, Hosting. Email & More!

SG Domain Registration
Example of Hard-Coded List

```php
$_gtd = array(
    'aero',
    'air',
    'cat',
    'com',
    'coop',
    'edu',
    'gov',
    'info',
    'int',
    'jobs',
    'mil',
    'mobi',
    'museum',
    'name',
    'net',
    'org',
    'pro',
    'travel',
    'asia',
    'post',
    'tel',
    \textit{geo},
);
```

This is an array of the official generic top-level domains.
PUBLIC SUFFIX LIST
LEARN MORE | THE LIST | SUBMIT AMENDMENTS

LEARN MORE ABOUT THE PUBLIC SUFFIX LIST

The Public Suffix List is a cross-vendor initiative to provide an accurate list of domain name suffixes, maintained by the hard work of Mozilla volunteers and by submissions from registries, to whom we are very grateful.

The usefulness of this can be seen if we take the example of cookies. In the past, browsers used an algorithm which only allowed setting wide-range cookies for top-level domains with no dots (e.g. com or org). However, this did not work for top-level domains where only third-level registrations were allowed (e.g. co.uk). In these cases, websites could set a cookie for .co.uk which would be passed onto every website registered under co.uk.

Since there was and remains no algorithmic method of finding the highest level at which a domain may be registered for a particular top-level domain (the policies differ with each registry), the only method is to create a list. This is the aim of the Public Suffix List.

Software using the Public Suffix List will be able to determine where cookies may and may not be set, protecting the user from being tracked across multiple sites.

As well as this, the Public Suffix List can also be used to support features such as site grouping in browsers. By knowing where the user-controlled section of the domain name begins and ends, browsers can group cookies and history entries by site in a way that couldn't easily be done before.

For more information, please contact us.

Uses

These are some of the uses of the list we know about. If you are using it for something else, you are encouraged to tell us, because it helps us understand the potential impact of changes.

Firefox
Example of String Length Check

But you can do much more with regular expressions. In a text editor like EditPad Pro or a specialized text processing tool like PowerGREP, you could use the regular expression \b[A-Z0-9._%+-]+@[A-Z0-9.-]+\.[A-Z]{2,}\b to search for an email address. Any email address, to be exact. A very similar regular expression (replace the first \b with \ and the last one with .) can be used for a
Proposed Recommendations

A. Recommend IDN TLD operators (including IDN ccTLD, IDN gTLD and IDN gTLD Accredited Registrars) to support Universal Acceptance of IDN TLDs in their own systems

B. Allocate specific resources for the advocacy of Universal Acceptance beyond the development of informational materials and toolkits

C. Development of informative reference materials for new IDN TLDs (including gTLD and ccTLD) to handle issues of Universal Acceptance

D. Direct efforts, lead by staff, with the participation from the community, for further studies to investigate the scope of the issue and what other services or actions could be taken by ICANN to support the Universal Acceptance of IDN TLDs beyond outreach and awareness campaigns
Get Our Own Act Together

Recommendation A
Select & Register

- Domain: .中国
- Annual Fee: 39.95 USD / 1 Year
- Setup Fee: 29.95 USD
- Country / Category: China
- Popular Restriction: Easy

Also Available in these Domains
Recommendation A

• Recommend IDN TLD operators (including IDN ccTLD, IDN gTLD and IDN gTLD Accredited Registrars) to support Universal Acceptance of IDN TLDs in their own systems
  – IDN gTLDs and IDN ccTLDs
  – IDN gTLD Accredited Registrars
  – Name servers, email addresses, etc.

• Proposed Implementation:
  – Updating of ICANN IDN Guidelines
Identify as a Strategic Initiative for ICANN

Recommendation B
Strategic Plan 2012-2015: Four Strategic Focus Areas

Supporting... One World, One Internet.

**Strategic Objectives**

- **DNS stability and security**
  - Maintain & drive DNS availability
  - Enhance risk management & resiliency of the DNS, IP addresses & parameters
  - Promote broad DNSSEC adoption
  - Enhance international DNS cooperation
  - Improve responses to DNS security incidents

- **Competition, consumer trust & consumer choice**
  - Maintain single authoritative root
  - Increase TLD options in more languages
  - Rollout new gTLDs including IDNs
  - Lower registration abuse
  - Increase industry competition

- **Core operations including IANA**
  - Flawless IANA operations
  - Continue long-term IANA functions responsibility
  - Resilient L-Root operations
  - Continual improvements (EFGM)
  - Internationalization
  - ICANN meeting evolution

- **A healthy internet governance eco-system**
  - Strive to be an exemplary international multi-stakeholder organization
  - Increase stakeholder diversity and cross-stakeholder work
  - World-class accountability and transparency (ART actions)
  - Act in global public interest
  - Enhance trust in ICANN’s stewardship
  - Ease of global participation

**Strategic Projects**

- Promote DNSSEC training and adoption
- Facilitate work on DNS, IP address & parameter security
- Implement best practices for DNS business continuity planning
- Facilitate IPv6 adoption
- Explore Internet Number Resource Certification
- Facilitate Whois evolution

- Local DNSSEC adoption
- IDN variant management
- Facilitate new DNS risk management working group & initiate study
- Develop standards for DNS & IP address protocol
- Promote IPv6 deployment
- Facilitate law enforcement engagement

**Community Work**

- Local DNSSEC adoption
- IDN variant management
- Facilitate new DNS risk management working group & initiate study
- Develop standards for DNS & IP address protocol
- Promote IPv6 deployment
- Facilitate law enforcement engagement

**Staff Work**

- Enhance business continuity & risk management
- Increase collaboration with RIRs & technical groups
- Promote DNSSEC operations & education
- Facilitate IPv4 & IPv6 engagement
- Advance cooperative capability building in developing countries
- Increase business outreach

- Improve compliance
- Enhance SO & AC support work
- Expand contracted party customer service
- Enhance global outreach
- Support IDN ccTLD Fast Track
- Facilitate new gTLD & IDN TLD implementation
- Expand ICANN regional footprint

- IANA request processing
- Root zone DNSSEC operations
- Facilitate Board support
- Enhance security and contingency operations
- Continue L-Root operations
- Improve enterprise systems processes/controls
- Improve staff training, retention and engagement

**ICANN**

**Strategy → Execution**

- Capacity/Resource Analysis
- Management Plan
- Budget & Ops Plan
- Execution

**Multi-stakeholder – Collaborative – International – Transparent - Accountable**
Recommendation B

• Allocate specific resources for the advocacy of Universal Acceptance beyond the development of informational materials and toolkits
  – a critical factor to foster and ensure competition, consumer trust and choice in the DNS marketplace
  – Common interest between gTLDs & ccTLDs

• Proposed Implementation:
  – ICANN board and staff to take into consideration and identify as an item in budget & strategic plan
Support for New IDN TLDs

Recommendation C
TLD Verification Code

Public Repositories (5)

- **unaccept-python**
  - Python
  - Last updated 7 days ago

- **unaccept-java**
  - Java
  - Last updated 19 days ago

- **unaccept-c**
  - C
  - Last updated 20 days ago

Organization Members (0)

- No public members
Draft outreach materials

Collateral Proposal

Existing Project Pages

New Dedicated Microsite

Does your software or website support the whole Internet?

What should I do?

- Test your software and websites with our test tool: www.icann.org/idn-test
- Please test your website and report broken software
- Report broken software to www.icann.org/acceptonions

New Fact Sheet

Specific technical info pages on individual topics

Form for users to report broken software and websites

Having a problem with a website?

Use an IDN library.

- Add a record to the DNS
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Recommendation C

• Development of informative reference materials for new IDN TLDs (including gTLD and ccTLD) to handle issues of Universal Acceptance
  – draw on and consolidate the experience from earlier launches of TLDs (including gTLDs and ccTLDs) to produce a set of informative reference materials to assist new TLD operators

• Proposed Implementation:
  – Work through Staff Universal TLD Acceptance Team
Beyond Outreach & Awareness

Recommendation D
NO ONE PERSON, COMPANY, ORGANIZATION OR GOVERNMENT RUNS THE INTERNET.

The Internet itself is a globally distributed computer network comprised of many voluntarily interconnected autonomous networks. Similarly, its governance is conducted by a decentralized and international multi-stakeholder network of interconnected autonomous groups drawing from civil society, the private sector, governments, the academic and research communities, and national and international organizations. They work cooperatively from their respective roles to create shared policies and standards that maintain the Internet’s global interoperability for the public good.

WHO IS INVOLVED:

IAB
INTERNET ARCHITECTURE BOARD
Oversees the technical and engineering development of the IETF and IRTF.
www.iab.org

ICANN
INTERNET CORPORATION FOR Assigned NAMES AND NUMBERS
Coordinates the Internet’s systems of unique identifiers: IP addresses, protocol parameter registries, top-level domain space (DNS root zone).
www.icann.org

IETF
INTERNET ENGINEERING TASK FORCE
Develops and promotes a wide range of Internet standards dealing in particular with standards of the Internet Protocol suite. Their technical documents influence the way people design, use, and manage the Internet.
www.ietf.org

IGF
INTERNET GOVERNANCE FORUM
A multi-stakeholder open forum for debate on issues related to Internet governance.
www.intgovforum.org

IRTF
INTERNET RESEARCH TASK FORCE
Promotes research of the evolution of the Internet by creating focused, long-term research groups working on topics related to Internet protocols, applications, architecture and technology.
www.irtf.org

GOVERNMENTS AND INTER-GOVERNMENTAL ORGANIZATIONS
Develop laws, regulations and policies applicable to the Internet within their jurisdiction; participants in multilateral and international fora on Internet governance.

WHO IS INVOLVED:

ISO
INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
Develops international standards. The ISO 31008 standard establishes internationally recognized codes for the representation of names of countries, territories or areas of geopolitical interest and their subdivisions. ISO 3166 does not establish the names of countries, only the codes that represent them.
www.iso.org/website/codes.html

ISOC
INTERNET SOCIETY
Assures the open development, evolution and use of the Internet for the benefit of all people throughout the world. Currently ISOC has over 90 chapters in around 50 countries.
www.internetsociety.org

RIAs
5 REGIONAL INTERNET REGISTRIES
Manage the allocation and registration of Internet number resources, such as IP addresses, within geographic regions of the world.
www.arin.net
www.apnic.net
www.lacnic.net
www.ripe.net
www.afrinic.net

W3C
WORLDWIDE WEB CONSORTIUM
Create standards for the world wide web that enable an Open Web Platform, for example, by focusing on issues of accessibility, internationalization, and mobile web solutions.
www.w3.org

INTERNET NETWORK OPERATORS’ GROUPS
Discusses and influences matters related to Internet operations and regulation within informal fora made up of Internet Service Providers (ISPs), Internet Exchange Points (IXPs), and others.

Version 1.08 | March 21, 2013
This graphic is a living document, designed to provide a high level view of how the Internet is run. It is not intended to be a definitive guide. Please provide feedback at www.icann.org/about/whorunstheinternet
Recommendation D

• Direct efforts, lead by staff, with the participation from the community, for further studies to investigate the scope of the issue and what other services or actions could be taken by ICANN to support the Universal Acceptance of IDN TLDs beyond outreach and awareness campaigns
  – Engaging with community beyond ICANN
  – Establishing Liaisons with emerging industry standards
  – Consider additional services (e.g. 2LDs under TLD)
  – Proactive Advocacy & Surveys

• Proposed Implementation
  – Through ICANN staff team with support from community
Universal Acceptance Issue will be Amplified
Next Steps

• Submit to ccNSO & GNSO Councils for their adoption
• Follow up on implementation?
IDN Variant TLDs

Board Resolution 2013.04.11.14
Summary of Response

1. Implementation of IDN Variant TLDs at the root DNS is not a purely technical matter and requires policy decision and therefore is within the purview of the ccNSO and GNSO;

2. The ccNSO and GNSO should develop policies for the allocation and delegation of IDN Variant TLDs and continue to monitor its ongoing implementation; and,

3. Broad-based outreach to the community at-large is important for the success of IDN TLDs, especially with IDN Variants.
ICANN Team Works

- VIP Project
- IDN Variant TLD Program Projects
- Project 2.1: Label Generation Rules
- Project 7: Implementation Process
JIG Works?

• Policy Implementation and process
  – Root DB/WHOIS? Delegation requirements?...
  – EBERO?

• Generation Panels
  – Appropriate set of Experts

• GNSO IDN WG Policy Output:
  – 4.1.3. Language Community Input for Evaluation of new IDN gTLD Strings
  – 4.1.4. One String per new IDN gTLD
  – 4.1.5. Limit Variant Confusion and Collision
  – 4.1.6. Limit Confusingly Similar Strings
Single Character IDN TLDs

Any Next Steps?
Aug 25, 2011 Board Resolution


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.
Current Status (as at Feb 2012)

• August 2011 Board Resolution
• Response from JIG drafted
  – Refined by ccNSO Council
  – Adopted by GNSO Council and ccNSO Councils
  – Urging Board to provide clearer road map
• SSAC Report on Single Character IDN TLDs
  – Did not uncover any new issues
  – Reconfirmed that current processes needs to be updated
  – Suggested additional works
Future of JIG Work

• Issues of Common Interest identified:
  1. Single Character IDN TLDs
  2. IDN TLD Variants
  3. Universal Acceptance of IDN TLDs

• Next Steps
  – Following up on Implementation?
  – Need to adjust charter?
Thank You

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