

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/jiwig.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

Draft Final Report Posted for

Public Comments: June 25, 2013

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>

Acceptability Issues Example

Permanent Home Address Line 1*:

Permanent Home Address Line 2:

City*:

State*: CA

Zip Code*: -

Note: You must be a U.S. resident

SSN*: - -

Date of Birth*: / / (MM/DD/YYYY)

You must be 18 or older, 19 in Al

Mother's Maiden Name*:

E-mail Address: @ .

aero
biz
com
coop
edu
gov
info
mil
museum
name
net
org
pro
us


No P.O.

be cons



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Email or Phone Password
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Sign Up

It's free and always will be.

First Name:

Last Name:

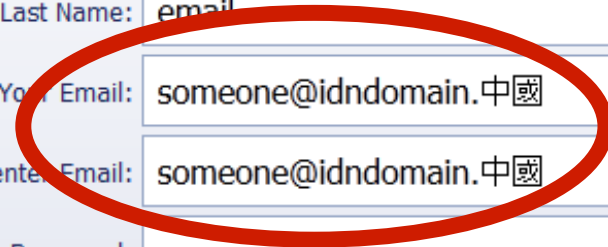
Your Email:

Re-enter Email:

New Password:

I am:

Birthday:



Please enter a valid email address.

[Why do I need to provide my birthday?](#)

Firefox | domains asia - Google Search

https://www.google.com/search?q=domain+name+asia&ie=utf-8&oe=utf-8&aq=t&rls=org. domain name asia

Search Images Mail Drive Calendar Sites Groups Contacts Mobile More »

Google domains asia edmon@teamworks.as

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

Web Images Maps Videos News Shopping More Show search tools

Ads related to domains asia

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

Asian Domains
www.marcaria.com/
Domain Registration in Asia
.asia .jp .cn .kr .my .sg .tw .in

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

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

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

Domains.Asia
www.domains.asia/
Domain The Net Technologies. Aust **Domains**, Inc. CrazyDomains. Dynadot LLC. BB
Online UK Limited. ... more. Every **.Asia** registration helps fund community ...

\$7.99 Domain Names
www.maddogdomains.com/
Register your **domain** today.
Free Blog, Hosting, Email & More!

Asia Registry | Complete Asia Pacific ccTLD Domain Names
www.asiaregistry.com/
Asia Registry is your **Asia** wide **domain** name registrar providing complete coverage

.SG Domain Registration

Example of Hard-Coded List

```
$_gtld = array(  
    'aero',  
    'biz',  
    'cat',  
    'com',  
    'coop',  
    'edu',  
    'gov',  
    'info',  
    'int',  
    'jobs',  
    'mil',  
    'mobi',  
    'museum',  
    'name',  
    'net',  
    'org',  
    'pro',  
    'travel',  
    'asia',  
    'post',  
    'tel',  
    'geo',  
)
```

[line 108]

Generic top-level domain

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 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 denied setting wide 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 registration was 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 domains.

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-content 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.

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]{2,4}\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 to



Verify Email Address

www.VerifyEmailAddress.org

Language: English Español

Tired Of Verifying Emails One At A Time? NEW: [Bulk Email Verification!](#) [Click here.](#)

Your Free Email Address Verifier - verify Email addresses

Just enter any Email Address here to verify if it exists:

Enter Email ID to Check:

a@a.com

Validate MX Record

The page at localhost:1101 says:

MX Record is NOT Valid.

OK

Mailing List Wizard: Configure Filters

Filter settings
You can use substrings, wildcards, and regular expressions

- Delete emails which contain
 - Substrings, comma separated
 - Regular expression
 - Wildcards, comma separated (* and ? are allowed)
- Delete which NOT contain
 - Substrings, comma separated
 - Regular expression
 - Wildcards, comma separated (* and ? are allowed)
- Apply filters to entire address including user names
- Verify emails by first-level domains list
- Delete invalid email addresses
- Remove addresses with more than 1 numeric characters in mailbox name

< Back Next > Cancel Help

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

.中国



Search and Register

Enter your desired domain name and click Search.

www.

.中国

SEARCH



Select & Register

ADD TO CART

<input type="checkbox"/>	Domain	Annual Fee	Setup Fee	Country / Category	Popular Restriction	Trustee
<input checked="" type="checkbox"/>	somedomainname.中国	39.95 USD / 1 Year	29.95 USD	China	Easy ▾	

[Also Available in these Domains](#)

someone@somedomainname.中国

Address*
123 Nathan Road

Country* Hong Kong

City* Tsim Sha Tsui State/Province

Postal/Zip Code*
HK

Phone*
+852 98765432

Fax
+852 98765431

WHOIS Address Same as Billing Address

Enter in the address as you wish it to appear on your domain's WHOIS record. This address must be valid and only allow English characters

First Name* Someone Last Name* Using IDN

Company*
 Individual

Email Address*
someone@somedomainname.中国

Address*
123 Nathan Road

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.

	DNS stability and security	Competition, consumer trust & consumer choice	Core operations including IANA	A healthy Internet governance eco-system
Strategic Objectives	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Maintain single authoritative root Increase TLD options in more languages Rollout new gTLDs including IDNs Lower registration abuse Increase industry competition 	<ul style="list-style-type: none"> Flawless IANA operations Continue long-term IANA functions responsibility Resilient L-Root operations Continual improvements (EFQM) Internationalization ICANN meeting evolution 	<ul style="list-style-type: none"> Strive to be an exemplary international multi-stakeholder organization Increase stakeholder diversity and cross-stakeholder work World-class accountability and transparency (ATRT actions) Act in global public interest Enhance trust in ICANN's stewardship Ease of global participation
Strategic Projects	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Expand Internationalized Domain Name (IDNs) Implement new gTLDs & measure impact Whois program improvements Improve policy development processes Enhance registrant protection Implement rights protection mechanisms Expand stakeholders 	<ul style="list-style-type: none"> Define internationalization principles Continue IANA infrastructure upgrade Publish reports on IANA services Monitor performance of root zone management IANA excellence (EFQM) OEI - Organizational Effectiveness Initiative Improve Enterprise Systems 	<ul style="list-style-type: none"> Complete Affirmation of Commitments & organizational reviews Retain & support existing community while attracting new & diverse community members Build global support for single authoritative root Enhance cooperation in Internet Governance Increase technical community communication & collaboration
Community Work	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Promote IDNA protocol implementation Facilitate new gTLD & IDN rollout Support Registrar Accreditation Agreement amendments Expand inclusion & orientation of new stakeholders 	<ul style="list-style-type: none"> Strengthen regional presence Engage with Staff on performance Increase participation on key committees Expand engagement within technical community 	<ul style="list-style-type: none"> Increase multi-stakeholder participation Onboarding of participants Increase contributions to international forums Review SOs and ACs Promote continuing education/orientation in ICANN programs Continue Root Zone Management
Staff Work	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Expand Thought leadership Widen international engagement Strengthen corporate, government & other stakeholder partnerships Continue to improve decision impact analysis & reporting Enhance communications, accessibility & participation via improved tools Enhance multi-lingual strategy

Multi-stakeholder – Collaborative – International – Transparent - Accountable



Strategy → Execution



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)

All Repositories Sources Forks Mirrors

 **uniaccept-python** Python  




Universal Acceptance Toolkit for Python
Last updated 7 days ago

 all commits | commits by owner 52 week participation

 **uniaccept-java** Java  

Universal Acceptance Toolkit for Java
Last updated 19 days ago

 all commits | commits by owner 52 week participation

 **uniaccept-c** C  

Universal Acceptance Toolkit for C
Last updated 20 days ago

Organization Members (0)

No public members

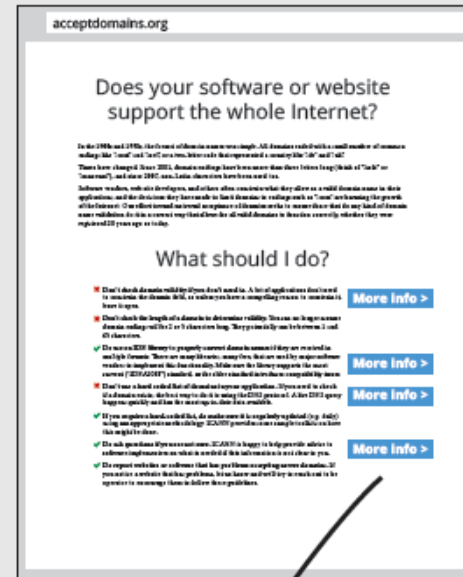
Draft outreach materials

Collateral Proposal

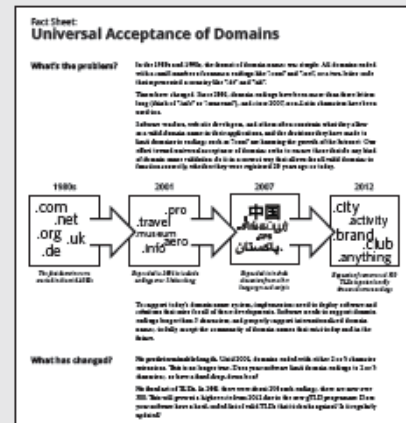
Existing Project Pages



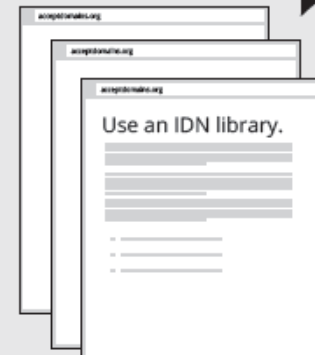
New Dedicated Microsite



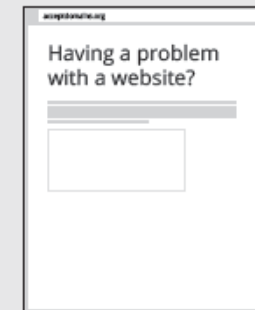
New Fact Sheet



Specific technical info pages on individual topics



Form for end-users to report broken software and websites



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

WHO RUNS THE INTERNET?

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 multistakeholder 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 A C P S R
INTERNET ARCHITECTURE BOARD
Oversees the technical and engineering development of the IETF and IRTF.
www.iab.org

ICANN C O P V
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

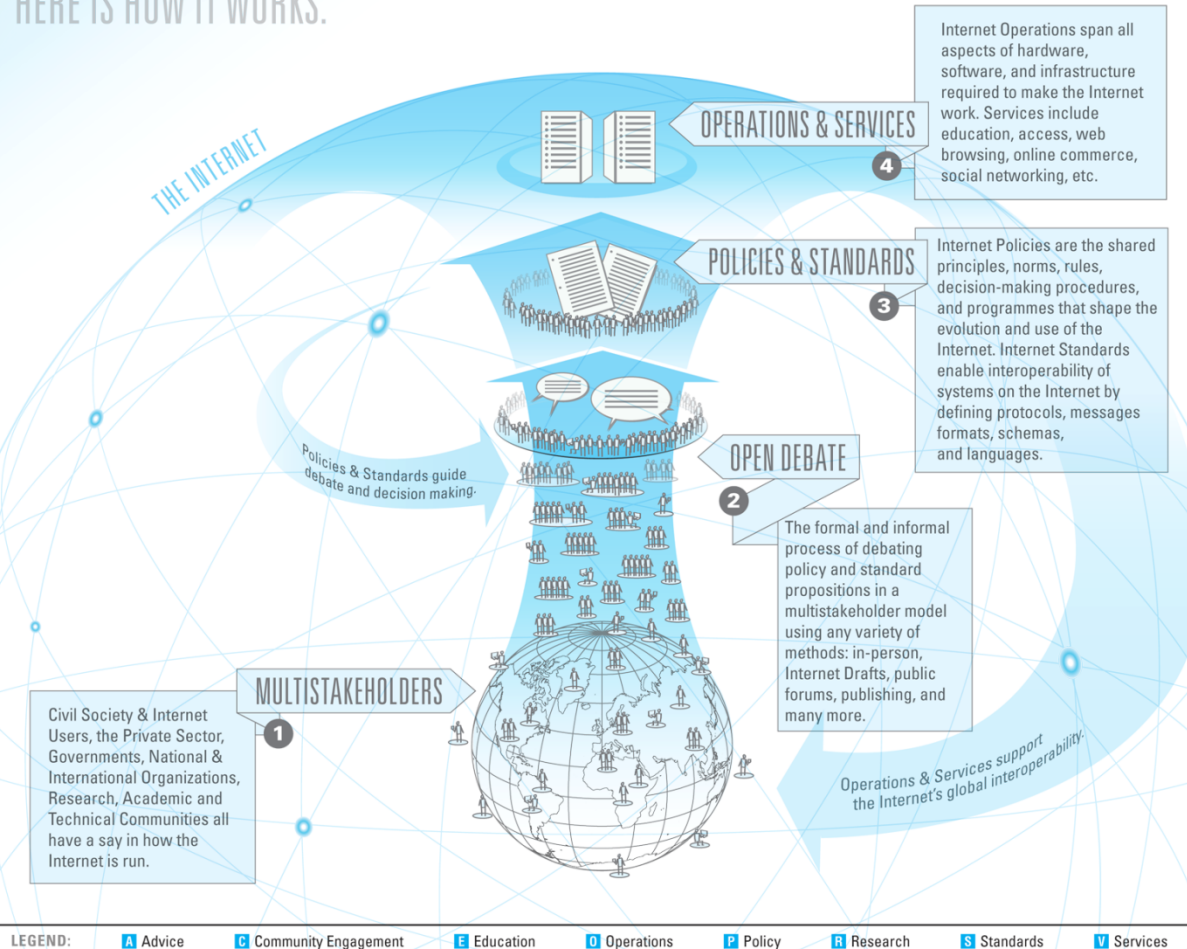
IETF C P S
INTERNET ENGINEERING TASK FORCE
Develops and promotes a wide range of Internet standards dealing in particular with standards of the Internet protocol suite. Their technical documents influence the way people design, use, and manage the Internet.
www.ietf.org

IGF A C P
INTERNET GOVERNANCE FORUM
A multistakeholder open forum for debate on issues related to Internet governance.
www.intgovforum.org

IRTF R
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 C P
Develop laws, regulations and policies applicable to the Internet within their jurisdictions; participants in multilateral and multistakeholder regional and international fora on Internet governance.

HERE IS HOW IT WORKS:



WHO IS INVOLVED:

ISO S
INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
Develops international standards. The ISO 3166 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/iso/country_codes.htm

ISOC C E P V
INTERNET SOCIETY
Assure 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 80 countries.
www.internetsociety.org

RIRs O P V
5 REGIONAL INTERNET REGISTRIES
Manage the allocation and registration of Internet number resources, such as IP addresses, within geographic regions of the world.
www.afrinic.net Africa
www.apnic.net Asia Pacific
www.arin.net Canada & United States
www.lacnic.net Latin America & Caribbean
www.ripe.net Europe, the Middle East & parts of Central Asia

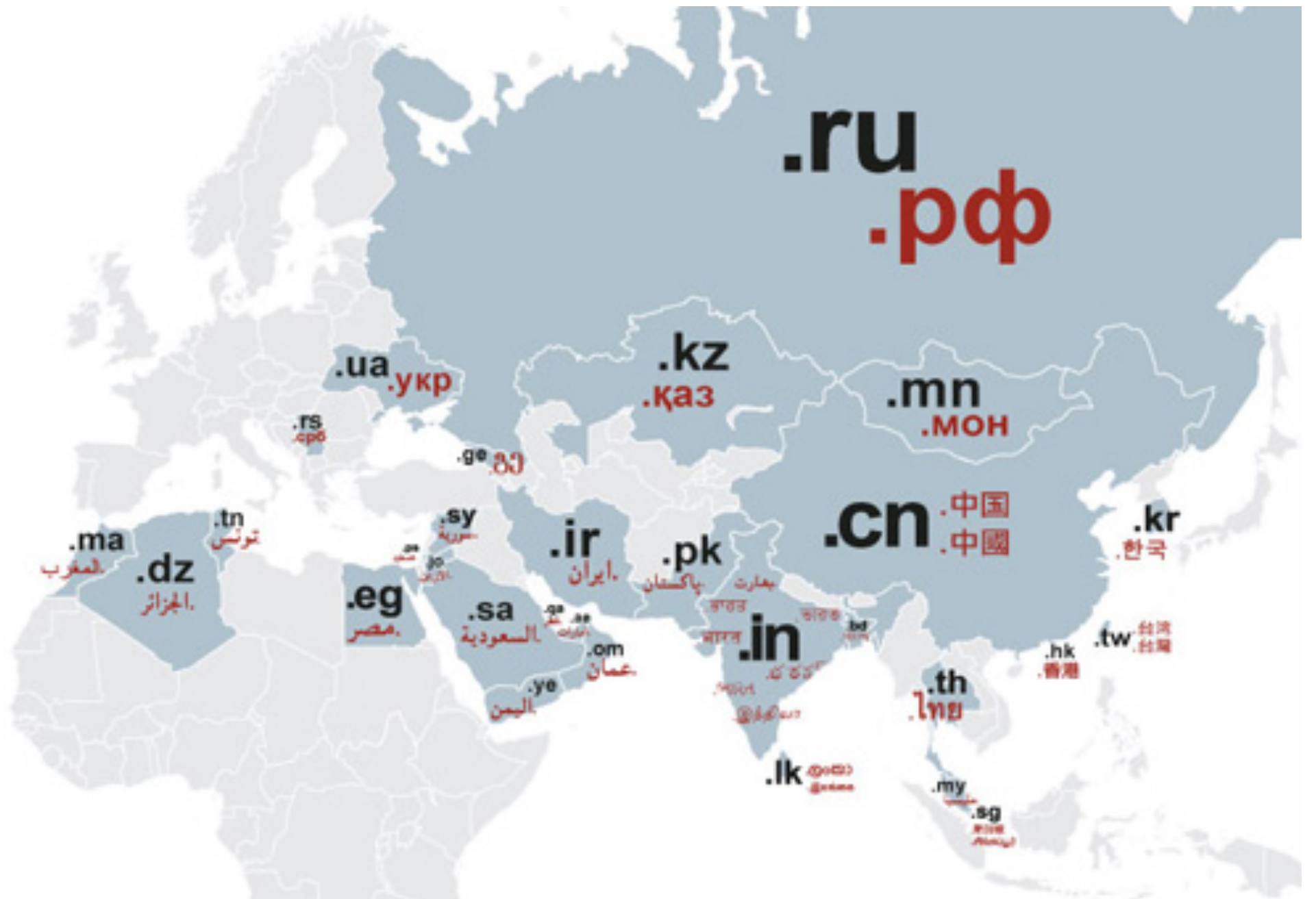
W3C S
WORLD WIDE WEB CONSORTIUM
Create standards for the world wide web that enable an Open Web Platform, for example, by focusing on issues of accessibility, internationalization, and mobile web solutions.
www.w3.org

INTERNET NETWORK OPERATORS' GROUPS A O V
Discuss and influence matters related to Internet operations and regulation within informal fora made up of Internet Service Providers (ISPs), Internet Exchange Points (IXPs), and others.

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



書籍 商标 机构セール 通販 游戏 谷歌
政务 在线 موقع 娱乐 公益 中文网 一号店 亚马逊
संगठन ファッション 商城 ڪاٺولڪي Москва 飞利浦
католик بيٽڪ 佛山 嘉里大酒店 网址 グーグル
ストア 盛貿飯店 рус 點看 中信 企业 家電 淡马锡
健康 大拿 ڪوم 信息 онлайн 商店 香港電訊 همراه 食品 天主教
慈善 招聘 网店 手机 بازار ڊاٽڪم ابوظبي 餐厅 ڊتي
орг عرب 盛貿飯店 微博 香格里拉 موزايڪ 诺基亚
购物 شبڪة 工行 ڪام 手表 پوئنٽ 政府
移动 八卦 اتصالات ڊوم 深圳 新闻 العليان
大众汽车 联通 ڊاٽنٽ 网络 欧莱雅 ڪايت 普利司通
電訊盈科 网站 世界 广东 点看 ڪيٽ 通用电气公司
クラウド 集团 ڪوم 时尚 公司 ڪامسنگ 嘉里 アマゾン
ڪيوتل ڪوم ڪرامڪو 我爱你 珠宝
机构体制

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

- <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.**

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

- Co-Chairs
 - Young-Eum Li (ccNSO)
 - yesunhoo@gmail.com
 - Edmon Chung (GNSO)
 - edmon@dot.asia