Universal Acceptance of IDN TLDs & Draft JIG (ICANN Joint ccNSO / GNSO IDN Group) Recommendations

APrIGF Seoul | 2013.09.06
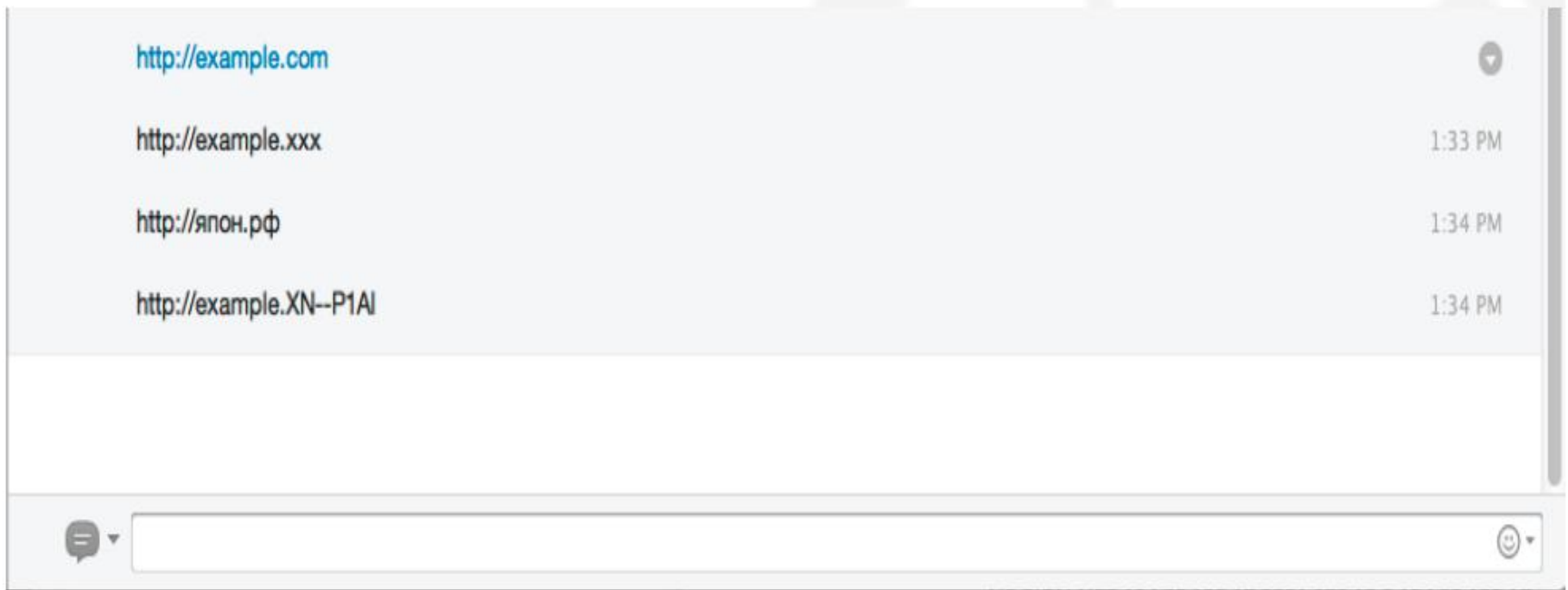
What does "Universal Acceptance" Mean?

Acceptability Issues Example

Acceptability Issues Example

7
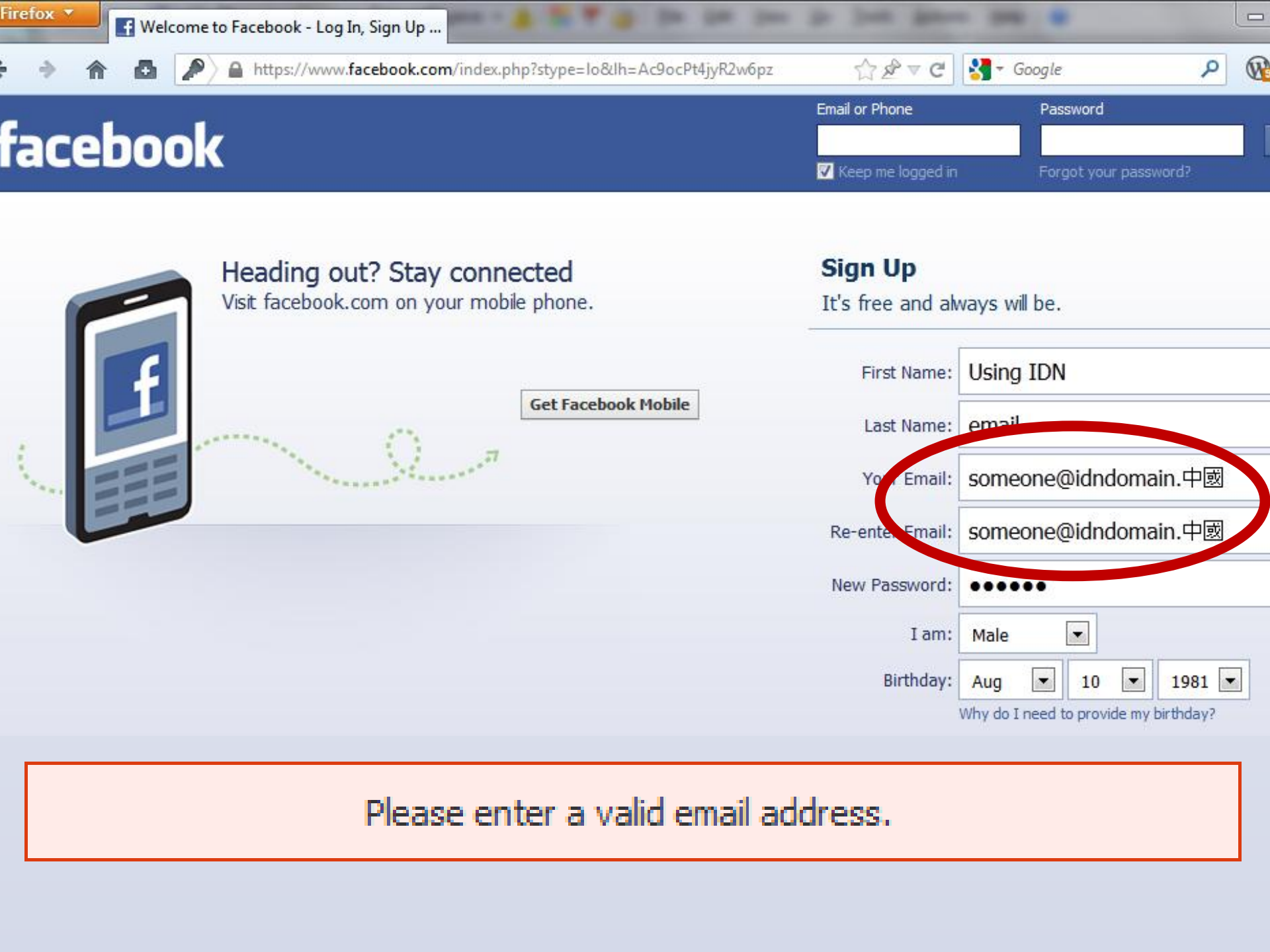
Email or Phone

Password

☑ Keep me logged in

Forgot your password?

facebook

Heading out? Stay connected
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Sign Up
It's free and always will be.

First Name: Using IDN

Last Name: email

You Email: someone@idndomain.中國

Re-enter Email: someone@idndomain.中國

New Password: ●●●●●●

I am: Male ▾

Birthday: Aug ▾   10 ▾   1981 ▾
Why do I need to provide my birthday?

Please enter a valid email address.

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

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About 23,500,000 results (0.22 seconds)

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Register your ASIA domain name
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.Asia Domain Names
www.namecheap.com/Asia-Domain-N
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Buy Your Cheap Asia Domain Name
375 people +1'd or follow Namecheap

$7.99 Domain Names
www.maddogdomains.com/
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| Search | Images | Mail | Drive | Calendar | Sites | Groups | Contacts | Mobile | More » |

Google

domain name asia

edmon@teamworks.

Search

About 22,400,000 results (0.20 seconds)

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Web

Images

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All Asian Domains - Japan .jp Domains - Hong Kong .hk Domains

Domain name .asia - Register .asia domains for 7.99€.
www.eurodns.com/Asia-domain-names
Free DNS & email. Check & buy now!
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.Asia Domain Names | Asia Registry
www.asiaregistry.com/domains/domains-asia.html
Asia Domain Name Registration - ASIA Domain Names.

Asia Registry | Complete Asia Pacific ccTLD Domain Names
www.asiaregistry.com/
Asia Registry is your Asia wide domain name registrar providing complete coveragage
of Asian ccTLD domain names including .cn .jp .au .nz .my .id .in .hk .sg ...

Why are new TLDs not accepted?

Example of Hard-Coded List

```
473    "ua",          // Ukraine
474    "ug",          // Uganda
475    "uk",          // United Kingdom
476    "um",          // United States Minor Outlying Islands
477    "us",          // United States of America
478    "uy",          // Uruguay
479    "uz",          // Uzbekistan
480    "va",          // Vatican City State
481    "vc",          // Saint Vincent and the Grenadines
482    "ve",          // Venezuela
483    "vg",          // British Virgin Islands
484    "vi",          // U.S. Virgin Islands
485    "vn",          // Vietnam
486    "vu",          // Vanuatu
487    "wf",          // Wallis and Futuna
488    "ws",          // Samoa (formerly Western Samoa)
489    "ye",          // Yemen
490    "yt",          // Mayotte
491    "yu",          // Serbia and Montenegro (originally Yugoslavia)
492    "za",          // South Africa
```

Example of Hard-Coded List

```
$_cctld = array(
    'ac',
    'ad','ae','af','ag',
    'ai','al','am','an',
    'ao','aq','ar','as',
    'at','au','aw','ax',
    'az','ba','bb','bd',
    'be','bf','bg','bh',
    'bi','bj','bm','bn',
    'bo','br','bs','bt',
    'bu','bv','bw','by',
    'bz','ca','cc','cd',
    'cf','cg','ch','ci',
    'ck','cl','cm','cn',
    'co','cr','cs','cu',
    'cv','cx','cy','cz',
    'de','dj','dk','dm',
```

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

What has been done?

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 (2003):

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.

TLD Verification Code

Public Repositories (5)

Find a repository...

All Repositories   Sources   Forks   Mirrors

😊 **uniaccept-python**   Python 👁 3   ⑂ 2

Universal Acceptance Toolkit for Python

Last updated 7 days ago

☐ all commits ■ commits by owner   52 week participation

😊 **uniaccept-java**   Java 👁 1   ⑂ 1

Universal Acceptance Toolkit for Java

Last updated 19 days ago

☐ all commits ■ commits by owner   52 week participation

😊 **uniaccept-c**   C 👁 2   ⑂ 1

Universal Acceptance Toolkit for C

Last updated 20 days ago

Organization Members (0)

No public members

Draft outreach materials

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 Study Team Reports & User Experience Report

publicsuffix.org/learn/

domain name asia

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 ve 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 registratio 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

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 (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 detemine where cookies may and may not be set, protecting the user from being tracked a

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-cont 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 be

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 u the potential impact of changes.

Firefox

Article   Talk

Read   Edit   View history

Search

List of Internet top-level domains

From Wikipedia, the free encyclopedia

The following is a **list of Internet top-level domains (TLDs)**. The top-level domain article provides the background information.

The official list of all top-level domains is maintained by the Internet Assigned Numbers Authority (IANA).[1]

A number of Proposed top-level domains are under consideration by ICANN/IANA.

Contents [hide]

Generic top-level domains   [edit]

Name ⬍	Entity ⬍	Notes	IDN ⬍	DNSSEC ⬍
.aero	air-transport industry	Must verify eligibility for registration; only those in various categories of air-travel-related entities may register.	No	No
.asia	Asia-Pacific region	This is a TLD for companies, organizations, and individuals based in the	Yes	Yes

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 109]

Generic top-level domain

This is an array of the official generic top-level domains.

JIG: Joint ccNSO-GNSO IDN Working Group

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
  - Workshop on Single Character IDN TLD at Cartagena

Universal Acceptance of IDN TLDs

Initial Report Published Jan 6, 2012

Draft Final Report Published Jun 25, 2013

Public Comment Periods Completed

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?

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

🏠 > Full IDNs > .中国 Domain Registration - China Domains

.中国

ICANN
Accredited Register

Search and Register

Enter your desired domain name and click Search.

www. | *somedomainname* | .中国 ▼ | **SEARCH**

🏠 > Domain Availability Results

ICANN
Accredited Register

Select & Register

ADD TO CART

	Domain	Annual Fee	Setup Fee	Country / Category	Popular	Restriction	Trustee
☑	🇨🇳 somedomainname.中国	39.95 USD / 1 Year	29.95 USD	China		Easy ▾	

Also Available in these Domains

101domain, Inc. (US) | https://my.101domain.com/cart/splash.html?submit=...To+ | Google
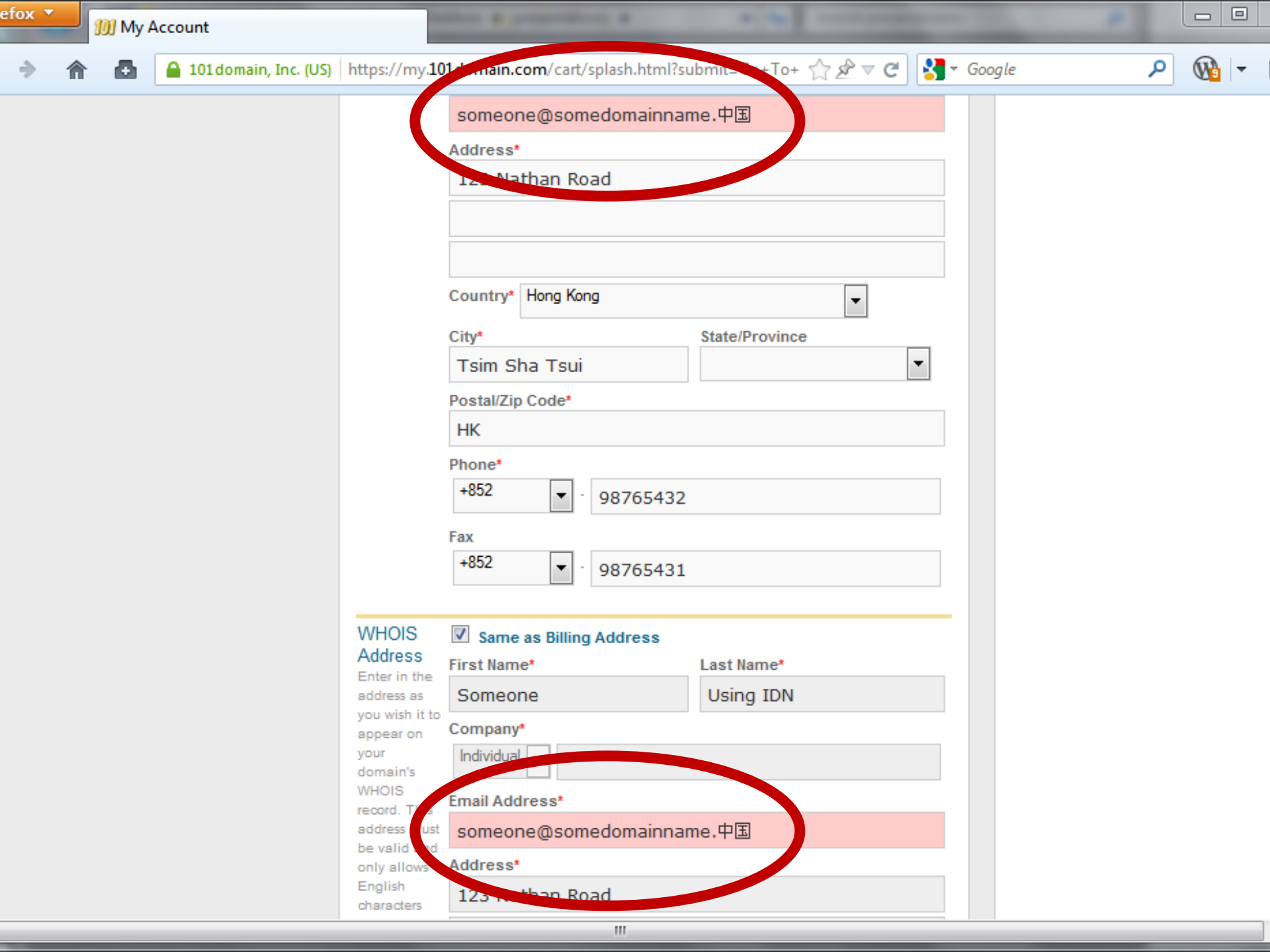
someone@somedomainname.中国

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

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

☑ Same as Billing Address

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

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 competion, 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

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

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

JIG Next Steps

- Completion of Final Report
- Seek adoption by respective councils (ccNSO and GNSO)
- Follow up with ICANN Staff team on implementation

More Volunteers Welcome…

Just email me: edmon@dot.asia

Every .Asia Domain Contributes to Internet Development in Asia

love.from.asia

Edmon Chung
<edmon@registry.asia>