



# ICANN Update

*@ PacNOG 11*

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# The mission of The Internet Corporation for Assigned Names and Numbers ("ICANN")

- To coordinate, at the overall level, the global Internet's systems of unique identifiers, and in particular to ensure the stable and secure operation of the Internet's unique identifier systems. In particular, ICANN:
  1. Coordinates the allocation and assignment of the three sets of unique identifiers for the Internet, which are:
    - a. Domain names (forming a system referred to as 'DNS');
    - b. Internet protocol ('IP') addresses and autonomous system ('AS') numbers; and
    - c. Protocol port and parameter numbers.
  2. Coordinates the operation and evolution of the DNS root name server system.
  3. Coordinates policy development reasonably and appropriately related to these technical functions.'

# 3 Things to share here:

- New Top Level Domains
- Securing the DNS
- Participation in ICANN process

One World

One Internet



# New Top Level Domains (TLDs)

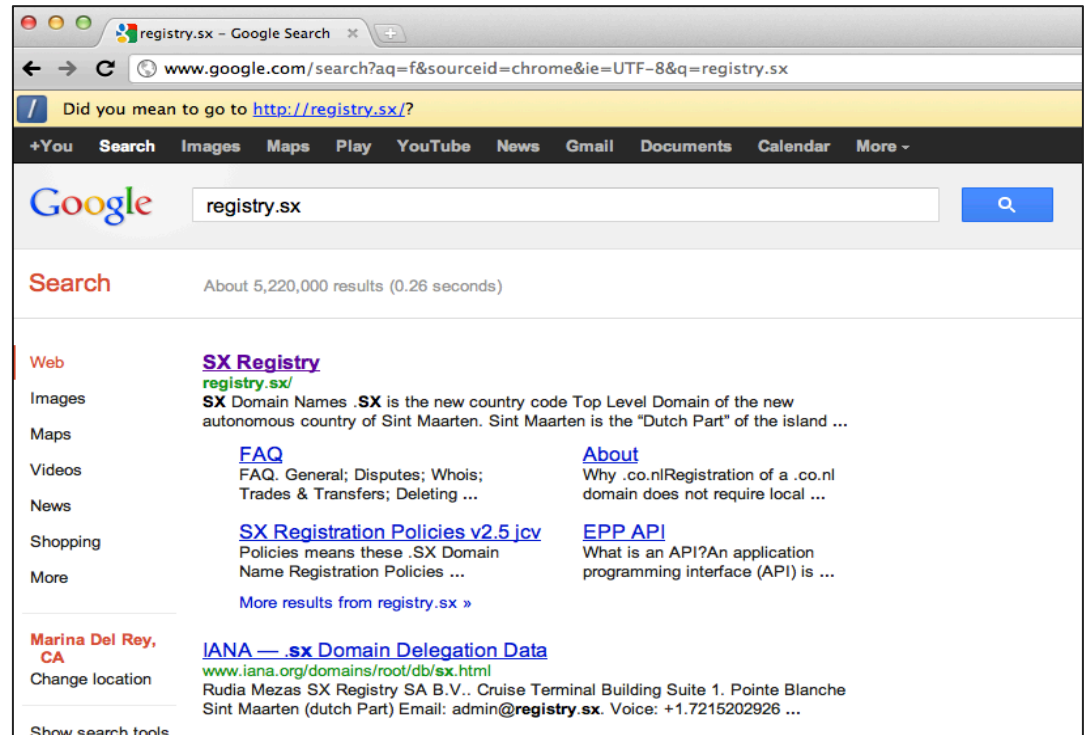
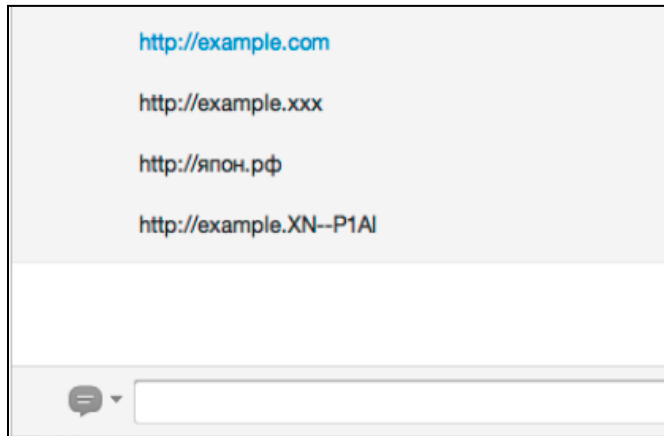
- Ongoing Internationalization and opening up of TLD name space
  - 31 Internationalized Domain Names (IDN) ccTLD fast track in the root (13 scripts representing 15 languages)
  - New gTLD program (to include IDN TLDs)
    - To increase choice and competition in the domain name space
    - To create a platform for innovation
    - To incorporate character sets such as Chinese, Arabic, Cyrillic or any non-Latin alphabet at the top-level

# New gTLD Program

- ICANN received 1930 applications
  - Africa 17, Asia Pacific 303, Europe 675, Latin America 24, North America 911
- Initial evaluation of applicants to begin July 12
- Objection period: 7 months for all applications
- Issues to address:
  - Root scaling, Applicant support, Batching, Rights protection mechanism, 2<sup>nd</sup> round of application, etc.

# Heads up for Service Providers

- Work on Universal acceptance of all TLDs
  - Ensure that software on the Internet universally accepts all domains, ASCII and IDN



# Acceptability Uses Example

Permanent Home Address Line 1\*:

Permanent Home Address Line 2:

City\*:

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:  @  .

State\*: CA

No P.O.

be cons

- aero
- biz
- com
- coop
- edu
- gov
- info
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- name
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***So how does one  
universally accept  
domains?***



# Checking TLDs

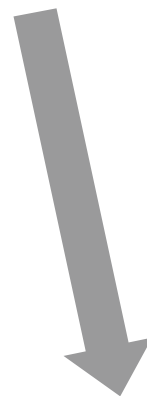
- Do you need to check domain validity?
  - If not, don't do it. Rethink why you do it.
  - e.g. if it is an email that needs to opt-in, will be caught that way
- If so, is it an online application?
  - If so, use a DNS query which is instant and up-to-date, don't rely on a fixed list
- Last case scenario
  - Use a fixed list of TLDs, but make sure it has an update mechanism (e.g. once per day)

# Don't forget IDNs

- Multiple representations of the same domain
- New concepts like “right-to-left”
- Not just in the “domain name” field, can be in email addresses, web addresses, name servers, and elsewhere

*U-label*

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xn--r8jz45g.xn--zckzah

*A-label*

# How can you help?

- Check your software – do all your applications properly support all domains?
- Inform and educate software developers and others
- Contact us at:  
[tld-acceptance@icann.org](mailto:tld-acceptance@icann.org)

# Securing the DNS

- Root is DNSSEC signed
- ICANN collaborating with network operators to sign their zone (ISPs, telcos, registry operators)
  - In the region: .nc, .nu, nz implemented DNSSEC
- L-root anycast initiative
  - More than 200 individual orgs now host an L-root anycast root-server
    - 4 more countries in the region are currently working on L-root implementation

# Security, Stability & Resiliency of the the DNS

- SSR Review Team final report now open for comment
  - <http://www.icann.org/en/news/public-comment>
  - Seek your input to Comment period that closes 31 July 2012
    - Also check out FY13 SSR Framework
    - Whois Policy Review Team Final Report

# Participation in ICANN

- Show an interest
  - Visit ICANN website, ongoing constituency work are open for comments, read blogs, announcements, social media, mailing list
  - Join a constituency (free)
  - Apply for fellowships to attend meetings
  - Remote participation tools available
  - Contact regional staff rep

# What's next?

Events you may wish to track	Date
ICANN Fellowship Application round	Closing 5 July 2012
ICANN 45 Meeting, Toronto, Canada	14-19 October 2012
ICANN 46 Meeting, Beijing, China	7-12 April 2013
Internet Governance Forum (IGF), Azerbaijan	6-9 November, 2012
WCIT 12, WTSA 12	December 2012



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Vinaka!

[www.icann.org](http://www.icann.org)

Questions?

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