Universal Acceptance of IDN
ICANN London  |  2014.06.23
edmon@dot.asia
What is IDN?

Internationalized Domain Names
www.domainname.asia

www.नाम.asia

Unicode
ISO10646 Standard

Punycode
IETF IDN Standard

U-label
Native Form / Unicode Label

www.नाम.असाधि

U+0928 U+093E U+092E U+0905 U+0938 U+093F U+0905

xn--l2bm1c xn--l1ba6m2a

www. xn--l2bm1c.xn--l1ba6m2a

A-label
ACE (ASCII Compatible Encoding)

Punycode / IDNA prefix
“xn--”
Businesses Use Local Language
EAI: Email Address Internationalization

café@domain.london
中文@域名.asia
сайт@рус. дети
What does “Universal Acceptance” Mean?
Acceptability Issues Example
Please enter a valid email address.
domains asia

About 23,500,000 results (0.22 seconds)

Web
Images
Maps
Videos
News
Shopping
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

Domains Asia
www.domains.asia/
Why are IDN TLDs and IDN Email Addresses Not Accepted?
Example of Hard-Coded List

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 (replacing the first \b with \s and the last \s with \$) can be used by a Czechoslovakia?
Acceptability Issues Example

http://example.com
http://example.xxx
http://япон.рф
http://example.XN--P1AI
Your Free Email Address Verifier - Verify Email addresses

Enter Email ID to Check:
a@a.com
Validate MX Record

MX Record is NOT Valid.

Filter settings
- Delete emails which contain SPAM, REMOVE
- Substrings, comma separated
- Regular expression
- Wildcards, comma separated (* and ? are allowed)
- Delete which NOT contain *com$
- Delete which NOT contain
- Substrings, comma separated
- Regular expression
- Wildcards, comma separated (* and ? are allowed)
- Apply filters to entire address list including user names
- Verify emails by first-level domains list
- Delete invalid email addresses
- Remove addresses with more than 2 numeric characters in mailbox name
JIG: Joint ccNSO-GNSO IDN Working Group
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**
Proposed Recommendations

A. Get Our Own Act Together

B. Make it a Strategic Initiative for ICANN

C. Support for New IDN TLDs: Best Practices

D. Beyond Outreach: Be Proactive in Facilitating Community Beyond ICANN
Search and Register

Search and Register

Enter your desired domain name and click Search.

www. somedaydomainname .中国

Select & Register

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
someone@somedomainname.中国
Address*
123 Nathan Road
Country* Hong Kong
City* Tsim Sha Tsui
Postal/Zip Code* HK
Phone* +852 98765432
Fax* +852 98765431
Universal Acceptance
Universal Acceptance Initiative

An Abridged Roadmap

Introduction to the Roadmap

Setting the Scene

The Universal Acceptance initiative is an effort to address potential user issues and obstacles observed in the use of new Top Level Domains, issues and obstacles rooted primarily in assumptions based on the TLD. This abridged roadmap, an outcome of the JIG Final Report on Universal Acceptance of IDN TLDs\(^1\) plus other work, presents a proposal, based on community input to date, as to how ICANN's energy, resources, and actions should be applied as part of the initiative.

The abridged roadmap emphasizes ICANN's multi-stakeholder model by limiting its scope to ICANN's role and possible actions. Identifying and addressing the issues
Universal Acceptance Roadmap

- Create “Sense of Urgency”
- Active Facilitator and Catalyst
- Sustaining Momentum
- Foster Relationships (between stakeholders)
- Accepting reports of problems & successes

**Preliminary Comments:**

- More emphasis on IDN (less on new gTLDs)
- Cross community involvement to steer project
- Proactive collection of community knowledge & measures of success/failures
- ICANN / Registry / Registrar systems
Universal Acceptance of IDN is a matter of Consumer Trust

Registrants will be frustrated and End-Users will be confused, overall trust on the DNS will be harmed.