Agenda

• What is *Universal Acceptance*?
• UA Initiative Roadmap
• Updating Internal Procurement
• UA Web Presence
• Measurement
• Support UA in the DNS Industry
• Applications/Service Vendor Panel
The Challenges
Lack of Support: All TLDs

Search www.nic.global.

Global Result Example
www.global.example
Buy this product or service. We are an example company that handles an
Lack of Support: Internationalized Domain Names

www.nic.测试.

www.nic.xn--0zwm56d.
Lack of Support: Internationalized Email

From: Francisco
To: 嘿 麻烦先生@导航.中国
Cc: mistertrouble@navigation.china
Subject: Urgent! New project for you
Universal Acceptance Initiative
Universal Acceptance Initiative: Goals

Universal support in applications and services for:

1. All TLDs
2. Internationalized Domain Names
3. Internationalized Email
Universal Acceptance Initiative: Roadmap

- Promote New TLDs, IDNs and Internationalized Email acceptance
- Foster discussion
- Support a “corporate memory” of progress
- Elevate awareness to the level of IPv6 and DNSSEC
- Supply a reporting tool for Universal Acceptance issues
- Be a catalyst, create a sense of urgency
Universal Acceptance Initiative: Web Presence


Additional content coming soon:

- Library of presentations
- Pointers to public reports
- Technical references
Measuring Success
Suggested Measurements

• Suggested approaches include measuring adoption via testing applications and services
  o Need to overcome bias in:
    § Selecting the roster of tested applications and services
    § Tests themselves – applying a standard test may have inherent assumptions

• Maintaining a goal of being neutral raises the concerns over bias
  o Some other approach is needed
Developing Measurements

• Self-assessments: a building block
  o Statements specific to a class of services or applications that define what “universal acceptance” success is
  o Results of applying tests built to the self-assessments can be analyzed (recognizing that there may be a bias)

• Have ideas?
  o Looking for suggestions, other measures and ways to mitigate concerns about bias
Leading by Example
Universal Acceptance Support within ICANN

• Adding clauses to ICANN’s standard contractor agreement to request support for:
  o All TLDs
  o Internationalized Domain Names (IDNs)
  o Internationalized Email

• Working on a plan to upgrade internal systems to operate in accordance with the goals of Universal Acceptance
DNS Industry Support Imperative

Industry must first operate in accordance with the goals of Universal Acceptance before we can expect others to do so.

• Supporting all TLDs, IDNs and Internationalized email means addressing:
  o Name servers
  o Contact email addresses
  o Business using IDNs and Internationalized Email
  o Back-office systems

• Educate Registrants
  o E.g., where to send bug reports
Panel Discussion

Challenges and Solutions for Universal Acceptance
http://пример.рф/elho?load
corgicrazy@пример.рф
corgicrazy@пример.рф
corgicrazy@пример.рф
corgicrazy@пример.рф
loren != LOREN
“polar bear”
tesla+Model_S!
Борис@пример.рф
xn--90aorig@xn--e1afmkfd.
corgicrazy@example.com
corgicrazy.co@موقع شبكة
Multi-language Email Addresses (EAI)
What is the multi-language email address?

**Example:**
- اختبار@اختبار.eg
- परीक्षा@उदाहरण.in
- 例え@例え.jp
- 실례@실례.kr
- 用户@中文.cn
- été@Économie.fr
teuer@Schön.de
- опыт @ опыт.ru
It is the International Standard

- IETF RFC6530 Framework
- IETF RFC6531 SMTP extension
- IETF RFC 6856 POP extension
- IETF RFC 6855 IMAP Extension
- IETF RFC6532 Email Header
- IETF RFC6533 Delivery Status and Disposition Notifications
Postfix supports EAI in July, 2014

Postfix 2.12 preliminary EAI support

Postfix EAI support is a work in progress. Initial development by Arnt Gulbrandsen was sponsored by CNNIC.

- Postfix 2.12-20140316-eai preliminary release Source code | PGP signature | Patch | PGP signature

Past stable releases (still supported)

Postfix 2.10

- Postfix 2.10 Patchlevel 3 Source code | PGP signature | Release notes | Change log
Please choose a Postfix Download Site

Country

Europe

- Multiple locations
- Austria, Vienna
- Finland, Tampere
- France, Paris
- France, Strasbourg
- Germany, Bayern
- Germany, Berlin
- Germany, Berlin
- Germany, Berlin
- Germany, Duesseldorf
- Germany, Frankfurt am Main
- Germany, Goettingen
- Germany, Hamburg
- Germany, Hamburg
- Germany, Munich
- Greece, Athens
- Ireland, Dublin
- Latvia, Riga
- Netherlands, Amsterdam
- Netherlands, Haarlem
- Netherlands, Utrecht
- Norway, Oslo
- Romania, Bucharest
- Romania, Bucharest
- Russia, Saint Petersburg
- Russian Federation, somewhere
- Slovenia, Ljubljana
- Spain, Bilbao
- Spain, Malaga
- Sweden, Falkenberg
- Sweden, Uppsala
- Switzerland, Basel
- Switzerland, Zuchwil
- UK, London
- UK, somewhere

North America

- Multiple locations
- Canada, Alberta, Edmonton
- USA, FL, Homestead
- USA, NY, New York
- USA, NY, White Plains
- USA, PA, Philadelphia
- USA, PA, Pittsburgh
- USA, somewhere
- Wietse's own site

Central America

- Costa Rica

South America

- Brazil, Sao Paulo
- Brazil, Campinas
- Brazil, somewhere

Africa

- South Africa

Middle East

- Iran, Tehran

East Asia/Pacific

- Multiple locations
- Australia, Brisbane
- Australia, Melbourne
- Australia, somewhere
- China, Hong Kong
- Japan, Kyoto
- Japan, Shizuoka
- South Korea, Seoul
- Taiwan, NSYSU CDPA
- Taiwan, Providence
GMAIL supports EAI in Aug, 2014
This is our future email address?

- eg.اختبار@اختبار
- example@example.com
- परीक्षा@उप्राहरण.in
- 例え@例え.jp
- 실례@실례.kr
- 用户@中文.cn
- été@Économie.fr
- teuer@Schön.de
- опыт @ опыт.ru
Problems

- Some servers have supported EAI, but the major client such as outlook still does not support EAI!
- Some email service providers have supported EAI, but there are still no free public registration of EAI.
- We must do something to push it!
APEC EAI deployment meeting in Beijing

- Aug. 2013, APEC approves the project “Deployment of Multi-language email Address Technology”
- Sep. 2013, We holds the workshop for this project in APEC TEL 48 in Hawaii, USA
- 30 and 31 Oct. 2014, We will host the APEC EAI workshop in Beijing.

► WELCOME TO JOIN IT!
Meeting Venue: Legendale Hotel Beijing
• **Meeting:**
  • Deployment of Multi-language email Address Technology
• **Date:**
  • 30 and 31 OCT. 2014
• **Speakers:**
  • from Internet Society of China/MIIT/CAS/State Internet Information Office/
    CNNIC/CONAC/APEC/ICANN/IETF/domain registry/Email service providers/ ...
• **Participants:**
  • email related service providers and users, domain related registry and
    users, any interested Multi-language email Address users from APEC
    regions, media and reporters
If you are interested in joining it, please kindly contact

• Dr. Jiankang YAO
  (yaojyk@cnnic.cn)
Changing DNS Infrastructure:
TLD, DNSSec, IDN, RR...

D. Crocker

Brandenburg InternetWorking
bbiw.net
Components

Client App User → Client App → DNS Resolver → DNS Caching Resolver → DNS Server

... → App Server DNS Module → App Server Admin

App Server Admin → App Server
Independent Actors

Use requires adoption by all

User
Client Ops
Client Developer

App Server Developer
App Server Ops
Server Provider

DNS Server Ops
DNS Server Developer

...
For each actor...

- Who is in the critical usage path?
- What is their specific effort, needed to accomplish adoption?
- What is the specific, immediate, business incentive (benefit) that will drive their adoption (justify the cost)?
GDD + Related Sessions

Thursday, 16 October

- DNSSEC Key Rollover Workshop
- Thick WHOIS Implementation (Working Session)
- Deploying the IETF’s WHOIS Replacement
Engage with ICANN on Web & Social Media

- twitter.com/icann
- facebook.com/icannorg
- linkedin.com/company/icann
- youtube.com/user/ICANNnews
- gplus.to/icann
- weibo.com/icannorg
- flickr.com/photos/icann
- icann.org