

Universal Acceptance – An Update

Don Hollander / GDD Summit / May 2016



Universal Acceptance

Expected Outcomes

- Understanding of what's happening in Universal Acceptance & what the UASG is doing
- Commitment to participation in Registry/Registrar Industry working group
- Commitment to local UA initiatives

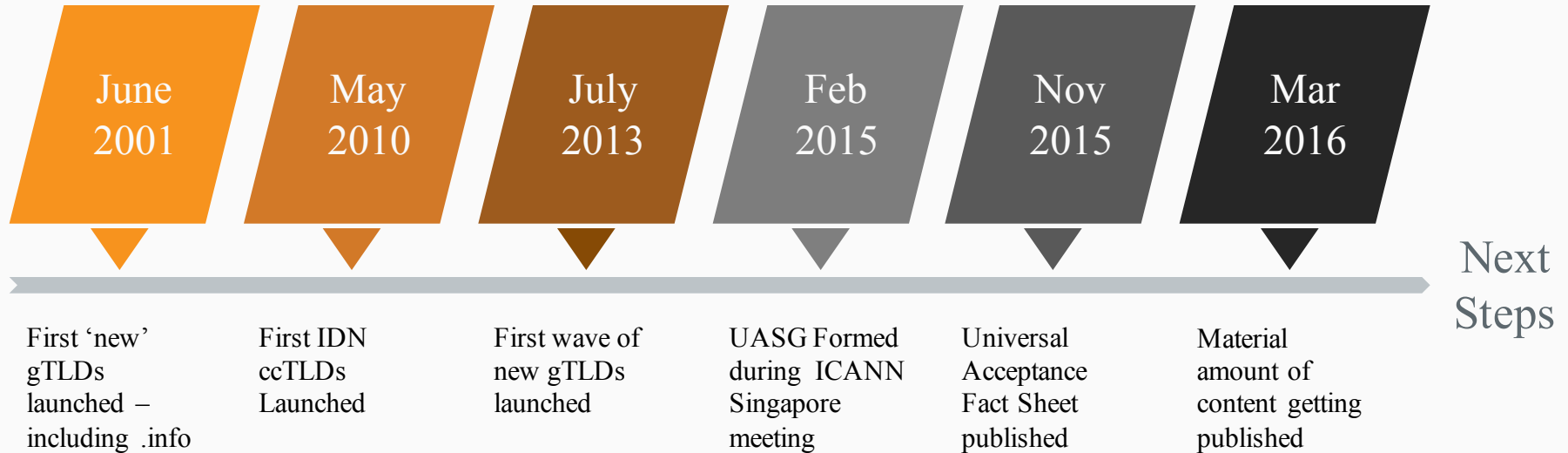
Universal Acceptance

“Universal Acceptance is the state where all valid domain names and email addresses are accepted, validated, stored, processed and displayed correctly and consistently by all Internet-enabled applications, devices and systems.”

What we're doing:

- Creating Documentation – mostly technical
- Creating Test Cases
- Fixing Programming Languages
- Measuring Results
- Facilitating Cooperation
- Reaching Out

Timeline: Universal Acceptance Issues



The Universal Acceptance issue has been around for a very long time, and yet no one was collectively raising awareness or providing tools and experience. The UASG has formed to address this.

Agenda

- * Organisation Structure
- * Target Audiences
- * Documentation Produced
- * Programming Languages
- * EAI
- * Measurements
- * Communications Strategy
- * The Internet Industry
- * UA in China
- * UA in India
- * Your Role
- * Next Steps
- * Q&A

UASG – Universal Acceptance Steering Group

- * Chair: Ram Mohan
- * Vice-Chairs: Christian Dawson, Edmon Chung, Rich Merdinger
- * Shifted from Staff Supporting volunteers to Volunteers Supporting Staff
- * Two project groups: Community Outreach & EAI
- * Strong Support from ICANN

Documentation Produced

- * UASG001 – Knowledge Base. *Who to contact for Browser problems*
- * UASG002 – Webmaster Engagement Notes – 7 Languages
- * UASG003 – Fact Sheet – Aimed at non-Technical people
- * UASG004 – UA Use Cases. *The Examples we'll be using to test*
- * UASG005 – Quick Guides. Available in English, Russian, Arabic, Chinese & soon in French, Spanish, Portuguese and German
- * UASG006 – Relevant RFCs

Documents found at uasg.tech – Documents Tab

Documentation Produced (cont)

- * UASG007 – An Introduction to Universal Acceptance – *Aimed directly at the Developers and other Technical People. ~18,000,000!*
- * UASG008 – A Model for Local Engagement
- * UASG009 – Quick Guide for Contracts & Tender Documents
- * UASG010 – Quick Guide to Linkification



Programming Languages

- * Four Teams working in Parallel to evaluate the UA Readiness of major open source programming languages – and fix them!
- * Aiming for first results to be ready by ICANN57

EAI

- * What is it?
 - * Email support for IDNs
 - * Email support for Unicode@example.tld
- * What are we doing?
 - * Test Environment
 - * Coordinating "Players"
 - * Identifying Implementation Decisions

Measurement

- * Checking to see if most popular websites can accept a variety of email addresses for registration.
- * Builds on work of Donuts

Communications Strategy

UMBRELLA MESSAGE:

Universal Acceptance (UA) is essential for the continued expansion of the Internet as it ensures that new domain extensions and email addresses can be used by all Internet-enabled applications, devices and systems.

Supporting Messages

- * UA provides a gateway to the next billion...
- * Businesses have a responsibility...
- * Better UA => Better UX

Target Audiences

People who can MAKE this happen

Developers & Systems Architects & Consultants/Contracting Firms

People who can DIRECT this to happen

CIOs

People who can INFLUENCE this to happen

C* Suite, Board Members, Government Officials, Ministers

Consultants, Media, Industry Influencers

UASG Going Forward...

- ❖ White Paper
- ❖ Communication Pilots
- ❖ Encouraging UA Practices in big consulting firms
- ❖ Getting the IDNA & Unicode engagement systems fixed.
- ❖ EAI



The Internet Industry

- ❖ Registry/Registrar Technical Review
- ❖ UA in China
- ❖ UA in India

Dennis Tan



Xiadong Lee



UA Activities and Plan from CNNIC

Xiaodong Lee
2016

A stylized world map composed of a grid of small squares, rendered in a light gray color, serves as the background for the slide. A solid blue horizontal bar is positioned across the middle of the image, containing the title text in white.

UA activities @ IDN

Business Cooperation with Browser Companies



Browser

- Initiated CDNC IDN letter to be sent to different browser companies
- Chinese dot and English dot to be equivalent in the address bar

Search Engines Supporting IDN

Baidu
Search Engine



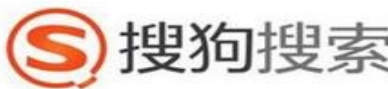
Support CDN collection, but Display with A-label (punycode form)

haoso
Search Engine



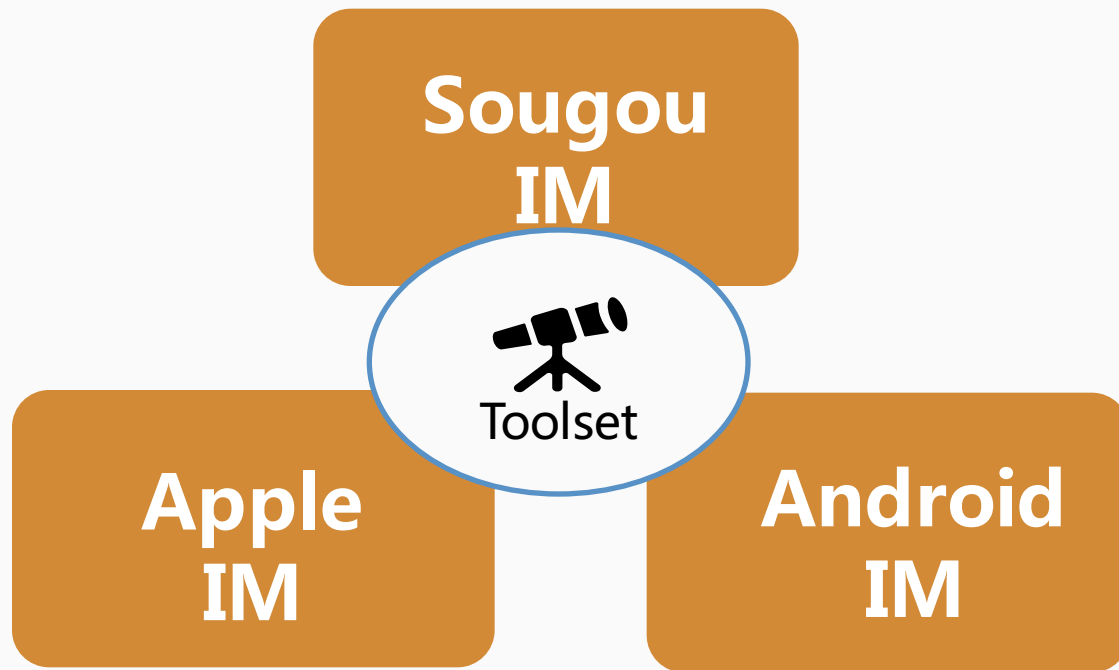
Support CDN collection and Display

SOSO
Search Engine



Support CDN collection and Display

Input Method shortcut with .中国



Social Media: Sina Weibo displays IDN



Sina
Weibo



Domestic Marketing Communications

Beijing Traffic Radio start using a .中国 and broadcast .中国 in live show



- The most popular radio program- which has 1.73 million audiences start using “1039 一路畅通.中国”

The egg producer-Zhengda adopted “正大溯源.中国”

- “正大溯源.中国” on packages
- supermarkets and convenience stores



Well-known O2O to adopt “.中国”



- print “惠刷.中国”, “返利通卡.中国” on cards
- over 8 million users owning cards with .中国 domain.

“Interview with Yang Lan” started using “杨澜访谈录.中国”

- oral presentation and subtitle.
- broadcasts on more than 60 TV channels and dozens of online video channels.



鲜名堂
阳澄湖大闸蟹领先品牌



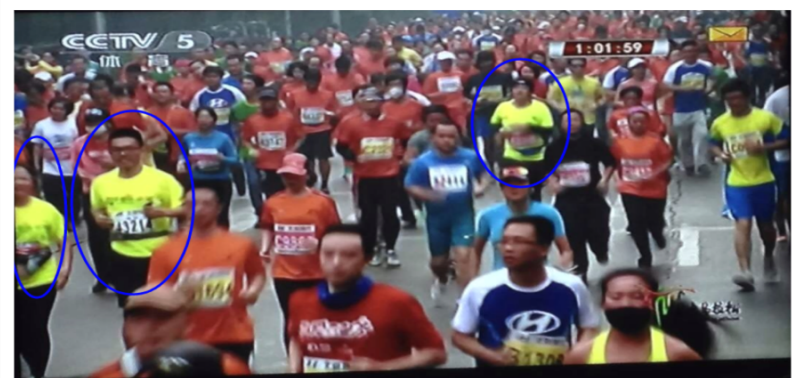
旧时王谢堂前宴，
飞入寻常百姓家

买一赠一
多买多赠
赠亲朋送好友
订购热线
1010-62662933

958 雄蟹3.7-4.0两/4只



.中国
promotion



A stylized world map composed of a grid of small squares, rendered in a light gray color, serves as the background for the slide. A solid blue horizontal bar is positioned across the middle of the image, containing the title text in white.

UA activities @ EAI

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](#)
Patch [03 \(sig\)](#) [02 \(sig\)](#) [01 \(sig\)](#)

Postfix 2.9

- Postfix 2.9 Patchlevel 9 [Source code](#) | [PGP signature](#) | [Release notes](#) | [Change log](#)
Patch [09 \(sig\)](#) [08 \(sig\)](#) [07 \(sig\)](#) [06 \(sig\)](#) [05 \(sig\)](#) [04 \(sig\)](#) [03 \(sig\)](#) [02 \(sig\)](#) [01 \(sig\)](#)



POSTFIX

QUICK LINKS

[Home](#)
[Announcements](#)
[Non-English Info](#)
[Feature overview](#)
[Web sites \(text\)](#)
[Download \(source\)](#)
[Mailing lists](#)
[Press and Interviews](#)
[Documentation](#)
[Howtos and FAQs](#)
[Add-on Software](#)
[Packages and Ports](#)
[Becoming a mirror site](#)

Search

Please choose a Postfix Download Site

[Mirror status report](#)

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 Peterburg](#)
[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](#)

Host the APEC EAI



Two APEC endorsed projects:

- ✓ Deployment of Multi-Language Email Address Technology
- ✓ Research on Multi-Language Email Address Usage in E-Government



Asia-Pacific
Economic Cooperation

APEC workshop for the deployment of multi-language email address technology
Release of the world's first Chinese domain name email account registration platform

APEC经济体代表联合签署呼吁书

全球首个中文域名邮箱注册平台发布 暨APEC多语种邮件技术部署会议

指导单位：国家互联网信息办公室、工业和信息化部、中国科学院

主办单位：中国互联网信息中心

承办单位：中国科学院

INITIATIVE 呼吁书

Multilingualism is the inevitable trend of Internet development. Multi-language Email Address is one of the most important new application and service of future Internet. Pushed by the experts of CAS and supported with the scientific staff from several countries and regions, all the technical problems of Multi-language Email Address have been successfully solved. Now it's time to deploy and apply this new technology!
Asia-Pacific is a vast region of multi-nationality and multi-language. In order to deploy the new Multi-language Email Address technology, APEC has given great support for this project for deployment of Multi-language Email Address, and CNNIC has done a lot for it.
Based on the spirit of the APEC project, China proposes the initiative that all the economies in Asia Pacific and other regions in the world take effective measures to design related policies, upgrade email system and strengthen propaganda for wide deployment and extensive application of the Multi-language Email Address technology. As party branch Internet culture diversity and boom digital economy prosperity in Asia Pacific and other regions in the world. To achieve the goal, CNNIC and its staff are willing to provide the necessary support!

多语种是互联网发展的必然趋势，作为一项重要的新应用和新服务，未来互联网必将广泛部署和应用。在APEC经济体代表们的共同努力下，多语种电子邮箱技术难题已经成功攻克。现在正是部署和应用这项新技术的时候。
亚太地区是一个多民族、多语言的大陆，为了部署和应用这项新技术，APEC经济体代表们给予了大力支持。CNNIC作为亚太互联网信息中心，在APEC经济体代表们的支持下，积极开展相关工作，并为此提供必要的支持和服务！

在APEC经济体代表们的共同努力下，多语种电子邮箱技术难题已经成功攻克。现在正是部署和应用这项新技术的时候。
亚太地区是一个多民族、多语言的大陆，为了部署和应用这项新技术，APEC经济体代表们给予了大力支持。CNNIC作为亚太互联网信息中心，在APEC经济体代表们的支持下，积极开展相关工作，并为此提供必要的支持和服务！

CNNIC Provides the 1st EAI platform with Coremail



The screenshot shows the login interface of the CNNIC Coremail EAI platform. The header includes the CNNIC logo (中国互联网信息中心), the Coremail logo (盈世 | Coremail), and the text '全球首个中文域名邮箱注册平台' (Global first Chinese domain email registration platform). A '帮助中心' (Help Center) link is in the top right. The main area is split: the left side features a blue background with a globe and the text '@互联网.中国' (Internet.China); the right side is a light blue login panel titled '中文邮箱帐号登录' (Chinese Email Account Login). It includes a language selector set to '简体中文' (Simplified Chinese), input fields for the email address (containing '李晓东@互联网.中国') and password (masked with dots), a '记住密码' (Remember Password) checkbox, and '登录' (Login) and '注册' (Register) buttons. A '忘记密码' (Forgot Password) link is at the bottom right.

CNNIC 中国互联网信息中心
盈世 | Coremail 全球首个中文域名邮箱注册平台 帮助中心

中文邮箱帐号登录
Language: 简体中文 ▾

李晓东@互联网.中国

.....

☐ 记住密码

登录 注册

[忘记密码](#)

Free EAI Account Application For All

Professor Oian Presented Chinese Email Address to Distinguished Guests



An EAI Email Sent by Robert E. Kahn



盈世

Coremail

钱华林 <钱华林@互联网.中国> Self-service - Lock Screen

Welcome

Inbox

钱教师这个能...

钱老，您好！

Congrats

Check

New

Inbox(2)

Draft

Sent

My Folders

Contacts

Mail Center

File Center

File Transit Center



Reply

Reply all

Forward

Delete

Mail filter

Report

Mark as

Move to

More

Congrats



From : 罗伯特 <罗伯特@互联网.中国>

Time : 12:57:53 Dec 17, 2015 (Thursday)

To : 钱华林@互联网.中国

I'm happy to participate in this historic event .

Congratulations on this achievement.

Bob Kahn



Asia Pacific Top Level Domain Association

Latest APTLD Announcements

Latest APTLD Announcements

- APTLD Statement on IANA Transition
- APTLD Fellowship Report by Andrew Mollivurai
- APTLD Fellowship Report by Sanjib Raj Bhandari
- APTLD Fellowship Report by Lianna Galstyan
- Announcement - 2016 APTLD Board
- A Message from Down Under
- Result of APTLD 2016 Board Election
- APTLD is Having a New Associate Member!
- APTLD Expert to Counsel the Government of Maldives on .mv Development
- APTLD 2016 Board Election - List of Candidates
- APTLD 2016 Board Election Schedule
- Update on APTLD Corporate Website Revamp
- New Round of the APTLD Fellowship Program
- Request for Proposals of APTLD New Website
- Statement by the APTLD Board on EC-CENTR's Statement
- APTLD69 Auckland Online Registration is Open NOW!
- APTLD Fellow's Testimony of Nicolau Santos Celestino
- APTLD Fellow's Testimony of Nodir Mirzoev
- The Ad Hoc Task Force Communique on Deployment of Multi-language Email Address Technology (EAI)



Asia Pacific Top Level Domain Association

The Ad Hoc Task Force Communique on Deployment of Multi-language Email Address Technology (EAI)

During the Meeting in Jakarta, 8-9 September 2015, members set up an ad hoc Task Force on Deployment of EAI

The Task Force members are: Raed Ai-Fayez (.sa), Hiro Hotta (.jp), Mark Kao (.tw), Yuri Kargapolov (.ykp), Jerry Lin (.tw) and Jiankang Yao (.cn).

Having discussed the matter in a session, the Task Force noted that multilingualism is an inevitable trend of the Internet's further development and multi-language email address is one of the most important features in new applications and services of the future Internet.

CNNIC initiated APTLD Open Letter to Support EAI

Representative of the National People's Congress Called for EAI support

百度为您找到相关结果约10,100个

[全国人大代表呼吁关注中文邮-人大代表 中文邮 互联网资讯-速途网](#)
1天前 - 2016年全国两会已经拉开帷幕,全国人大代表、中国科学院网络信息中心研究员兼总工程师阎保平在大会上呼吁关注中文邮的应用和发展,引发代表们的热烈讨论...

www.sootoo.com/content... - 百度快照 - 85%好评

[全国人大代表呼吁关注中文邮 - 互联网 - 第一新闻网](#)
21小时前 - 2016年全国两会已经拉开帷幕,全国人大代表、中国科学院网络信息中心研究员兼总工程师阎保平在大会上呼吁关注中文邮的应用和发展,引发代表们的热烈讨论...

www.firstnews.com.cn/t... - 百度快照 - 82%好评

[全国人大代表呼吁关注中文邮](#)
2小时前 - 2016年全国两会已经拉开帷幕,全国人大代表、中国科学院网络信息中心研究员兼总工程师阎保平在大会上呼吁关注中文邮的应用和发展,引发代表们的热烈讨论...

www.cctime.com/html/20... - 百度快照 - 65%好评

[全国人大代表呼吁关注中文邮 - IT业界 CIO时代网 - CIO时代网](#)
1小时前 - 2016年全国两会已经拉开帷幕,全国人大代表、中国科学院网络信息中心研究员兼总工程师阎保平在大会上呼吁关注中文邮的应用和发展,引发代表们的热烈讨论。

www.ciotimes.com/IT/11... - 百度快照 - 评价

[全国人大代表呼吁关注中文邮 - 产经要闻 - 科技讯-中国第一科技...](#)
23小时前 - 2016年全国两会已经拉开帷幕,全国人大代表、中国科学院网络信息中心研究员兼总工程师阎保平在大会上呼吁关注中文邮的应用和发展,引发代表们的热烈讨论。

www.kejixun.com/articl... - 百度快照 - 76%好评

[【全国人大代表呼吁关注中文邮】2016年全国...来自速途网-微博](#)

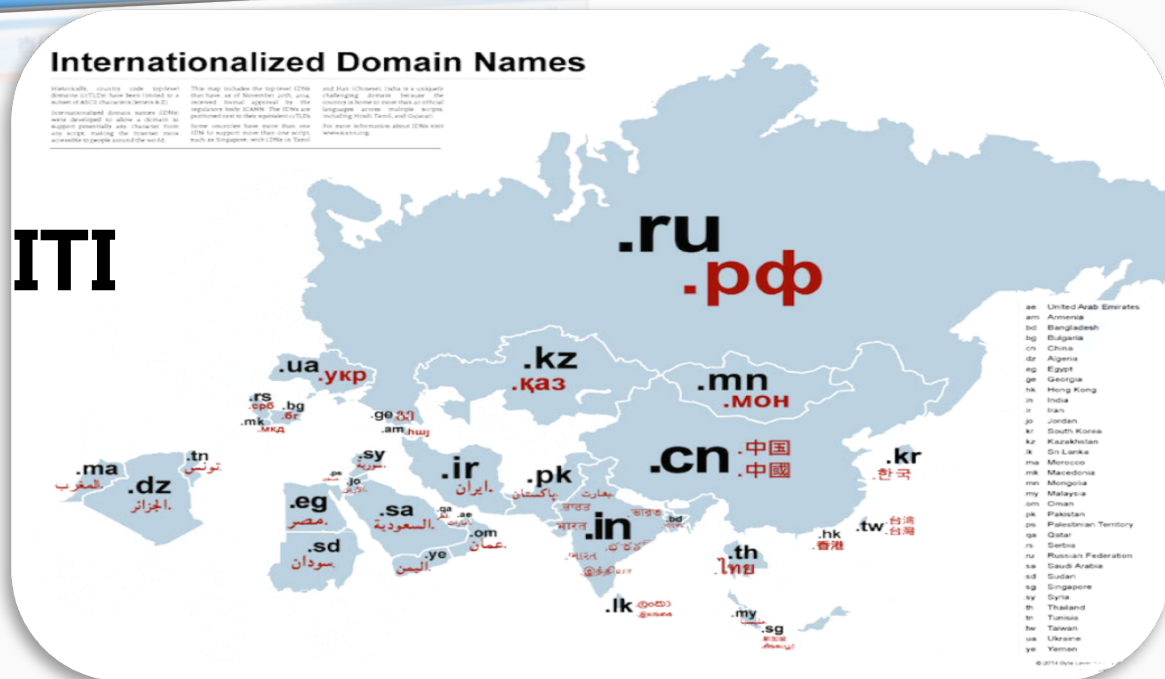
[【全国人大代表呼吁关注中文邮】2016年全国两会已经拉开帷幕,全国人大代表、中国科学院网络信息中心研究员兼总工程师阎保平在大会上呼吁关注中文邮的应用和发展,引发...](#)
weibo.com/1667925927/D... - 百度快照 - 87%好评



Future Plan



From CDNC to ITI





ITI with ccTLDs can help UA in Local Regions



Thanks for your kind attention!

Jitender Kumar



The Indian Experience with Universal Acceptance

Jitender Kumar
Afilias India

ICANN GDD Summit
May 2016

About Afilias India

- Indian Registry service provider to top 10 Indian brands
- Technical service provider for the Indian Government for .IN and IDNs (462m Internet users, **30% growth rate**)
- Serves a country with 22 languages and 1 billion+ non-English speakers

IDN ccTLD	Script (Language)
.भारत	.Bharat in Devanagari
.ভারত	.Bharat in Bangla
.భారత్	.Bharat in Telugu
.ભારત	.Bharat in Gujarati
.بھارت	.Bharat in Urdu
.இந்தியா	.Bharat in Tamil
.ਭਾਰਤ	.Bharat in Gurumukhi (Punjabi)

- Focused on Universal Acceptance, not “Universal **Access**” or “Universal **Awareness**”;
- Domain names and e-mail addresses should be Accepted, Stored, Processed and Displayed consistently across systems and applications.

India's top Technology Media Company/Site

in your profession, help build a smarter India!

in
en
do

www.siliconindia.com says:

Please enter valid emailid!

☐ Prevent this page from creating additional dialogs.

OK

community **Step 1 -- Step 2**


member of linkedin or facebook, please use their
word to log into our community.

You Can Also Make Your Membership [With Us](#) Directly

*Valid email:

*Enter password:

*Re-enter password:



Enter the words above:

[Join SiliconIndia](#)

all of us start to act to our true potential.

ians, join the community of
n professionals.

Connect with friends and the world around you on Facebook.



Please enter a valid mobile number or email address.

jkumar@email.भारत

Connect with friends and the world around you on Facebook.



Se

Please enter a valid email address.

domain-test@email.engineer



Share what's new in your life on your Timeline.

Sign Up

It's free and always will be.

Jitender

Kumar

jkumar@email.भारत

jkumar@email.भारत

Sign Up

It's free and always will be.

Please enter a valid email address.

Domain

Test

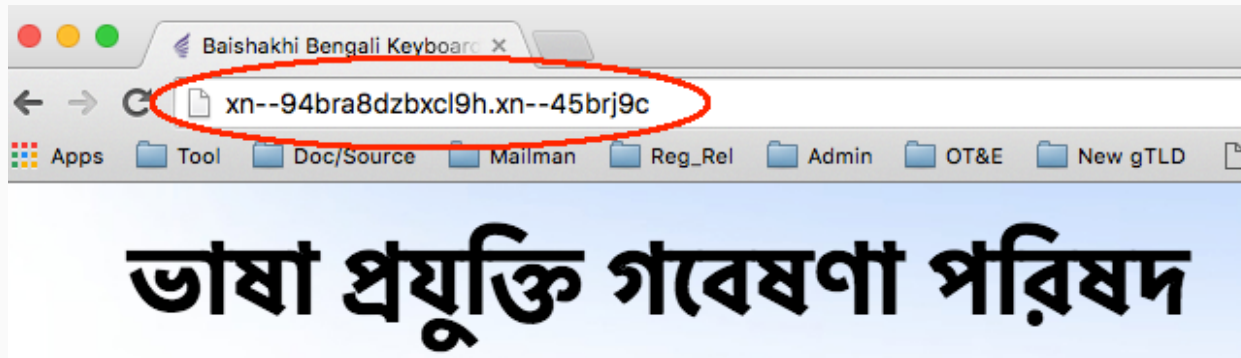
domain-test@email.engineer

domain-test@email.engineer

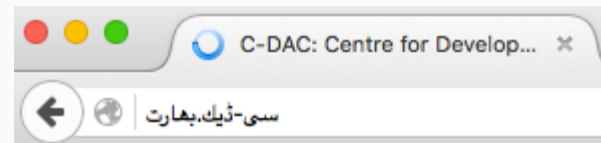
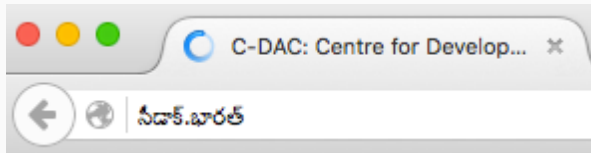
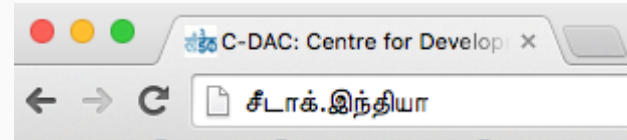
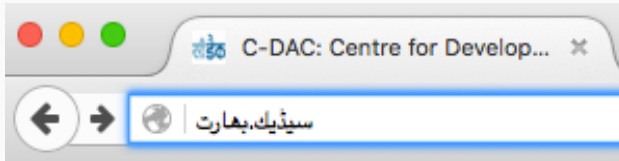
Safari - Punycode is not recognized as a domain name, even though its a valid live domain name



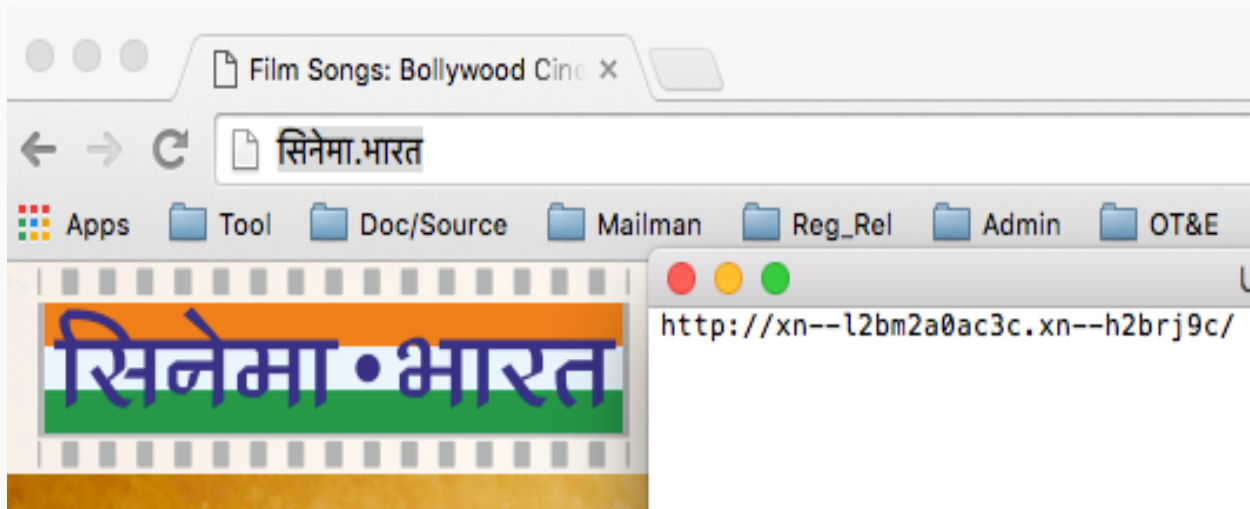
Address bar doesn't show native string



Multi-tier scripts do not show properly in the address bar



Copy / paste from Browser Address bar to notepad



Impact of Poor Universal Acceptance

- Terrible User Experience (UX)
- Customer Dissatisfaction with
 - Registry
 - Registrar
 - Website owner
- Stunted growth of the multi-lingual Internet
- Loss of business for Indian firms
- Flight to “safe” TLD options

How Can UASG and You Help?

- Increase awareness of UA Issues in the Indian and South Asian region
- Engage technical and management leaders at major Indian brands
- Assist with discussions beyond ICANN and involve larger communities
- Build a program with ISOC Chapters?

Jitender Kumar
Afilias India
jkumar@afilias.in





Summary & Conclusions



Your Opportunities

1. Make sure your own systems are UA Ready
2. Participate in the Registry/Registrar Technical Working Group
3. Participate in the UASG
4. Initiate UA efforts within your own communities
5. Partner with the UASG on your initiatives

Q&A

