



82 | COMMUNITY FORUM



Universal Acceptance Community Update

ICANN82 Prep Week | 26 February 2025

UASG, UAC by ccNSO, ICANN org



Universal Acceptance

Session Overview

Updates from Universal Acceptance Steering Group (UASG)

- * Updates from Local Initiatives
- * UA Day 2025

Updates from Universal Acceptance Committee (UAC by ccNSO)

Updates from ICANN org

- * UA Remediation of Open Source Software
- * UA Curriculum and Academic Outreach

Community Feedback - Question and Answer (Q&A)

Universal Acceptance and Categories Impacted

Universal Acceptance (UA): All valid domain names and email addresses work in all software applications.

Domain Names (including Internationalized Domain Names):

- * New short top-level ASCII domain names: [example.sky](#)
- * New long top-level ASCII domain names: [example.engineering](#)
- * Internationalized Domain Names (IDNs): [คน.ไทย](#)

Email Addresses (including internationalized email):

- * ASCII@ASCII (new and long TLD): [ekrem@misal.istanbul](#)
- * ASCII@IDN: [marc@société.org](#)
- * Unicode@ASCII: [测试@example.com](#)
- * Unicode@IDN: [όνομα@παράδειγμα.eu](#)
- * Unicode@IDN; right-to-left scripts: [ای-میل@مثال. موقع](#)



Accept



Validate



Process



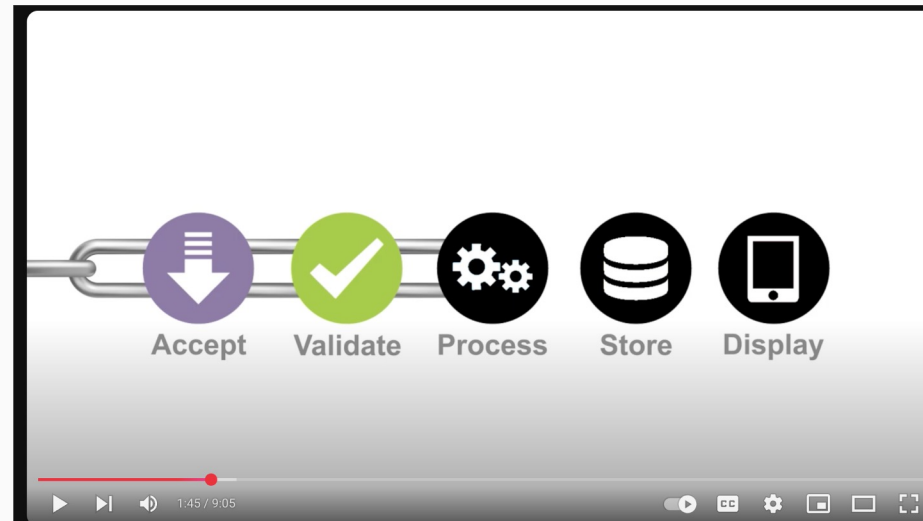
Store



Display

UASG Updates

- * Email Address Internationalization (EAI) Working Group (WG): Self-hosted working EAI systems
- * Measurement WG: UA progress indicators using common crawl queries
- * Technology WG: Framework for making websites UA-ready
- * New UA videos:
 - o [Universal Acceptance Technical Guide](#) (about how to make UA-ready applications)
 - o EAI video (to be published soon)



EAI Self-Hosting on Linux

- * **Objective:** To make it easier to experiment with self-hosted working EAI systems
- * This package creates a running mail server on a Debian or Ubuntu Linux system. It installs widely used open-source software packages and configures them to run a small EAI mail system.

Edit 信息测试.中国 (xn--vuq861bgvjrx4a.xn--fiqs8s)

Select Domain Add Domain IP addresses Macros Rebuild Register Help Logout

Logged in as johnl

Attribute	Value							
Admin	johnl							
Updated	(updated)							
Status	Active							
Mail	None							
Web	None							
Clone of								
Non-std records	<pre>; ; host at tornado torn A 71.19.148.118 AAAA 2605:2700:0:2:a800:ff:fe72:8531 MX 10 torn TXT "v=spf1 mx ~all" ; s1._domainkey.torn 60 IN TXT "v=DKIM1; h=sha256; k=rsa;" "xxx" ;</pre>							
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Add Comment								

EAI Self-Hosting on Linux

Here's how to set up a self-hosted EAI system on Linux:

- Select a domain and mailboxes
- Set up ssh
- Select a hosting provider
- Create a Linux virtual machine, set DNS records
- Install software
- Create mailboxes
- Finish up DNS
- Web mail
- Manage and experiment

Installing mail packages

```
== install postfix
== install opendkim
== install opendkim-tools
== install spamass-milter
== install spamassassin
== install spamd
== install dovecot-core
== install dovecot-imapd
== install dovecot-pop3d
== install roundcube-sqlite3
== install roundcube
== install apache2
== install certbot
== install python3-certbot-apache
Creating mailuser account for mailboxes
```

Updating mail configuration

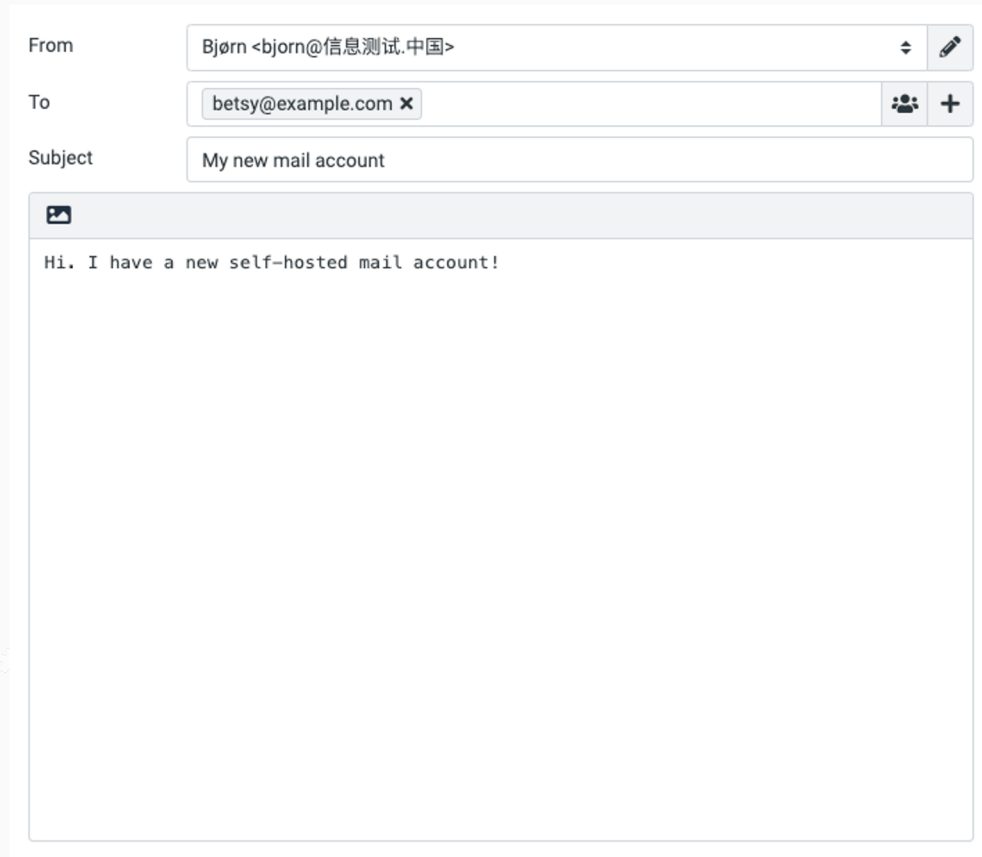
```
Enter mailbox name for user 1: 用户
Password for user 1: useruser
Do you want to add another user? (n)
User   Password  Mail address
user1  useruser  用户@torn.信息测试.中国
```

Creating mailbox directories

```
== Create DKIM keys
postfix/postfix-script: refreshing the Postfix mail system
```

You must add this DKIM record to your DNS if you have not already.

Send and receive mail



A screenshot of an email composition window. The 'From' field contains 'Bjørn <bjorn@信息测试.中国>'. The 'To' field contains 'betsy@example.com' with a close button (X). The 'Subject' field contains 'My new mail account'. Below the fields is a large text area containing the message: 'Hi. I have a new self-hosted mail account!'. There are icons for attachments and a plus sign for more options.

- * You should be able to send and receive mail at your new address!
- * The self-hosting kit will soon be available on <https://github.com/icann>.

UA Day 2025



UA Day 2025: Third Annual UA Day

- * UA Day aims to create global awareness and build capacity for UA adoption
- * Received 110 proposals from 62 countries and territories, and shortlisted 58 events from 58 countries and territories
- * The main UA Day 2025 event will take center stage on **8 May in Hanoi, Viet Nam**, kicking off the APAC DNS Forum, right after the Contracted Parties Summit
- * Organized in collaboration with UNESCO and the ICANN community, including UASG

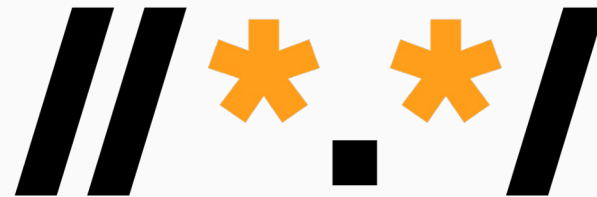


UA Day 2025 Shortlisted Events

Regions	Awareness	Curriculum	Training	Adoption	Regional Strategy	TOTAL
Africa		1	5	12	1	19
Asia Pacific	5	3	1	8	1	18
Europe	2		1			3
Latin America and Caribbean	2	3	2	8	1	16
North America				1	1	2
TOTAL	9	7	9	29	4	58

<https://universalacceptance.day/>

Call for Participation



Universal Acceptance

UA Day

#Internet4All

Join a UA Day Event Near You!

<https://universalacceptance.day/>

Local Initiatives

Updates from UA Local Initiatives (LIs)

LIs are focused on UA adoption and helped make over 100 websites UA-ready:

- * **China** reported 25% support for Chinese domain names by leading Internet applications that include QQ, Baidu, WeChat, 360, Xiaomi and OPPO
- * **Commonwealth of Independent States (CIS) and Eastern Europe (EE)** reported local software products are now UA-ready (Ispmanager panel, Yandex browser, VK social network, TEGU mail server, Mail.Ru web mail service, CMS 1C-Bitrix, etc). EAI testbeds in Armenia and Russia are providing EAI mail addresses in local scripts.
- * **India** reported the Indian Government made a [UA plan](#), setting a model for others
- * **Sri Lanka** reported a Buddhist organization adopted [Sinhala](#) and [English](#) websites, and supports Sinhala email
- * **Thailand** reported over 50 websites (half IDNs) are UA-ready; Tuk Tuk Mail supports Thai email

Local Initiatives

China

Advancing Chinese Domain Names: Current Status, Applications, and Industry Efforts

- * China has a huge population of **1.4 billion** native speakers, and promoting the Chinese domain names on the Internet is the consensus of the Chinese government, Internet communities, netizens, enterprises, and institutions
- * **Current Status**
 - As of Q4 2023, there are 97 IDN gTLDs in the world, of which **57 are Chinese gTLDs**, accounting for **59%**, and the number of domain names held has reached **351,000**, accounting for **85.4%** of the global IDN gTLDs.
 - **100% of Chinese local browsers and search engines support Chinese domain name resolution and indexing**, and some social platforms support Chinese domain names
- * **Technical and Standard Advancement**
 - Provide advice to the Chinese government for policy setting and promote the formulation of industry and national standard of Chinese domain names, and the national standard was officially implemented on 1 December 2024
 - Promote the implementation of technical standards in Internet applications, devices, and systems by organizing UA Day, Chinese domain name technical training, and other activities

China Local Initiative

* Application and Promotion

- **66%** of 6,011 well-known Chinese enterprises have registered Chinese domain names, including large enterprises, domestic top 500 enterprises, listed companies, and unicorn enterprises
- **Chengdu Universiade, Beijing International Film Festival**, and other world-class events use Chinese domain names
- The **Chinese Domain Name Innovation and Application Forum** has been held for **7 consecutive years** to promote the demonstration and application of Chinese domain names

* Brand and Market

- The brand identity role of Chinese domain names is recognized by enterprises, and **43%** of Chinese domain names are trademarked names
- Chinese domain names have made significant progress in terms of Internet application environment and market recognition

* Community and Industry Self-Regulation

- Internet Society of China established a working group for the promotion of Chinese domain names, and called for registries and registrars to carry out industry self-discipline, optimize the registration process, and operate in compliance

Local Initiatives

CIS-EE



At the starting point...

The CIS-EE Local Initiative has been formed on the basis of the **Regional Coordination Group on Universal Acceptance in CIS and EE countries**, est. in **April 2019** by 12 IDN ccTLD and new gTLD registries from 7 countries. Approved as LI by UASG in Dec. 2019.

Main issues preventing UA-readiness adoption in the region:

- Lack of awareness and trust in IDNs  Marketing and collaboration activities
Local industry events, awards, and webinars
IGF forums and Summer IG schools, WSIS Forum
- No demand for EAI, myths of EAI non-workability  Manuals for system administrators
EAI testbeds for developers (Armenia, Russia)
Outreach to email service providers, email software developers, hosting providers
Guide for web developers (in progress)
- IDN/EAI low support in local/popular software (RFC)  IDN/EAI Guidelines for direct contacts with developers
Trainings/webinars for IT professionals
Hackathons (Russia, Serbia)
Lectures and labs for IT students



10 years progress

In 2025 the CIS-EE Local Initiative has gathered experts from 9 countries: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, and Serbia.

Every language community is unique. Every local government has its own strategy and goals.

IDNs are supported by local software better than by global ones (VK, Yandex, CMS 1C-Bitrix, Tilda, etc.).
EAI is mostly supported for “send-receive” (Mail.Ru, Yandex Mail), less for “creation/host” (Ispmanager).
Users still ask where they can get an EAI address.

IDNs growth on local markets where local language support is demanded

Localized guidelines and tools for IDN/EAI support implementation in software

Academic engagement:

lectures and practical cases for students
(universities in Armenia, Russia, Serbia)

Ongoing project **Поддерживаю.рф** (since 2020):
wiki, learning course, self-certification program,
catalog of UA-ready software, testing tools, etc.
(in Russian)

Including reports on:

- UA readiness of 300 popular websites
- SMTPUTF8 support by mail servers in .RU and .РФ
- UA-readiness of local software (TBA)

10 years progress

Lectures in universities, 2021-2025



Industry events, 2020-2025



UA Days in the region, 2023-2025



Local Initiatives

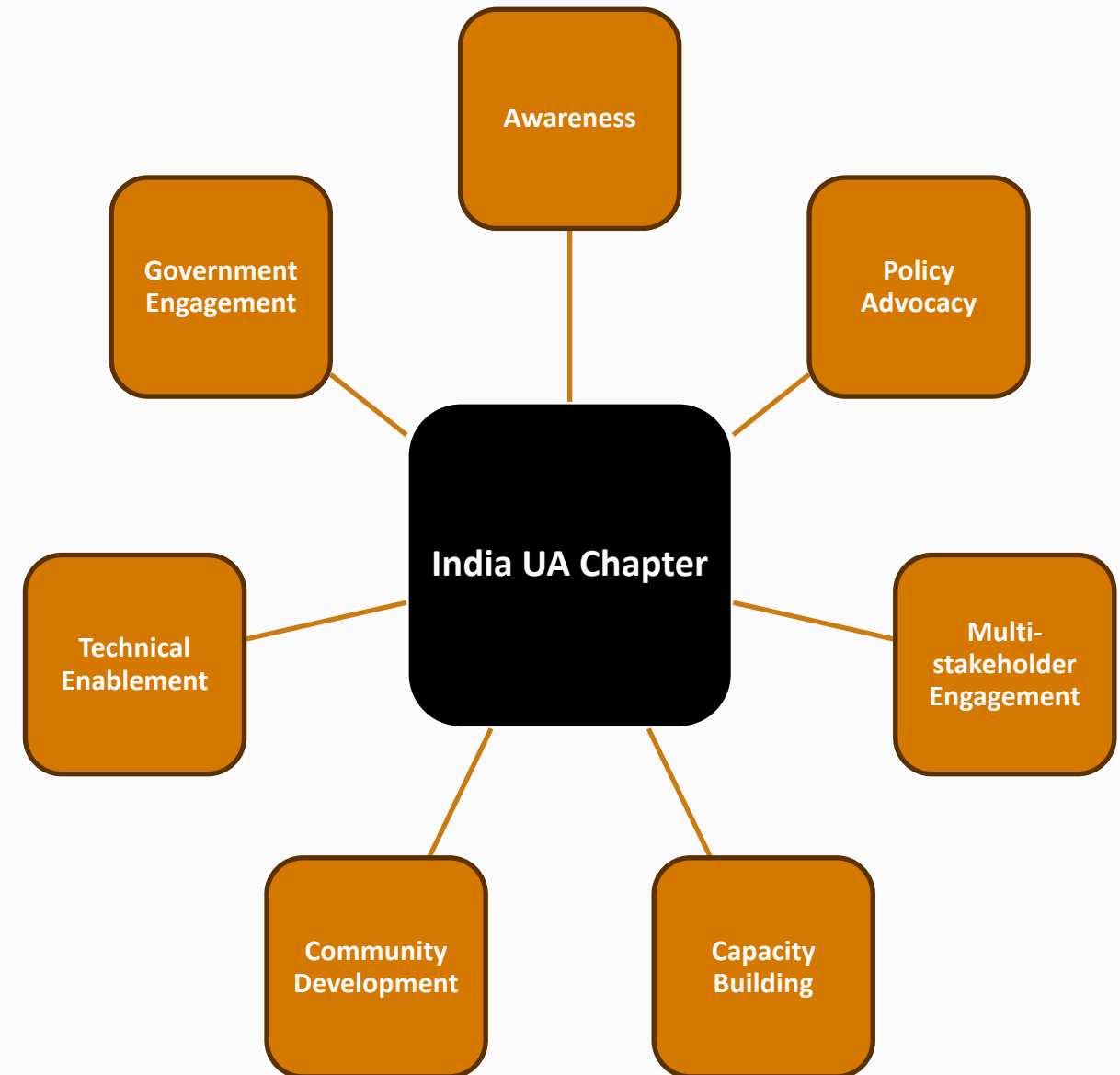
India

Local Initiative - India UA Chapter

Introduction

- * Over the past five years, the India Chapter's Local Initiative (LI), spearheaded by FICCI in collaboration with key stakeholders and the UA community under the guidance of the UASG and ICANN, has emerged as a transformative force in advancing UA and EAI in India
- * This pioneering initiative has played a catalytic role in driving digital inclusivity, transitioning from foundational awareness-building to enabling large-scale capacity development, policy integration, and technical empowerment
- * With our continuous efforts, today, India stands at the forefront of the global UA movement, fostering an inclusive, multilingual internet ecosystem that reflects the linguistic diversity of the nation

The Local India UA Chapter has not only facilitated India's journey towards a more inclusive and accessible Internet, but has also positioned the nation as one of the key players in UA adoption. Through sustained collaboration, capacity building, and policy advocacy, the initiative will continue to bridge linguistic divides and unlock the full potential of the multilingual digital economy.



Achievements and Milestones

National Awareness Campaigns & Outreach:

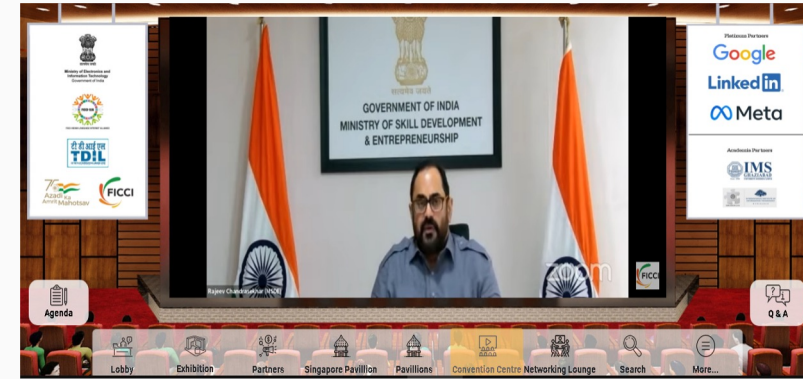
- Conducted several UA sensitization sessions across India, reaching 5,000+ professionals from diverse sectors
- Leveraged national platforms, including pre-events at the India Internet Governance Forum (IGF) and leading tech conferences (e.g., Bhashantara)
- Disseminated UA knowledge through targeted digital outreach, publications, and case studies, reaching a broader online audience

Policy Integration & Government Collaboration:

- Supported the Ministry of Electronics and Information Technology (MeitY) in developing and launching the National Universal Acceptance (UA) Policy under the Multilingual Internet Development initiative
- Engaged with several state-level IT departments, promoting UA adoption in their digital transformation strategies across multiple Indian states
- India's government leads UA adoption across both public and private sectors

Multi-Stakeholder Engagement & Business Enablement:

- Facilitated several UA-focused roundtables with industry leaders, SMEs, and startups to emphasize UA's role in driving digital business growth
- Promoted UA adoption among MSMEs to enhance their digital accessibility, enabling customer engagement in native languages
- Industry actively contributing to UA adoption – Collaborations with leading tech players and startups



Achievements and Milestones

Capacity Building & Skill Development:

- Conducted several specialized technical workshops on UA, EAI, and IDNs, empowering 500+ developers, IT professionals, and government officials
- Launched “Train the Trainer” programs, creating a network of UA champions across academic institutions and technology hubs
- Government’s “Mera Desh Meri Pehchaan” Project aims to deploy 6,40,000 second-level IDNs and corresponding email addresses in 22 languages

Technical Enablement & Advanced Training:

- Delivered several advanced programming-centric sessions on UA integration, fostering developer readiness for UA-compliant systems

Community Development:

- Leveraged social media, authored articles, and published research-based case studies to sustain UA discourse
- Incubated a vibrant community of UA-focused technical professionals driving peer learning and collaborative problem-solving
- Specialized organizations like Data Xgen and other are driving EAI solutions for the industry



Homographs / Homophones

Spell variants / homophonic variants / mis-spellings viz.

- “color.com / colour.com”, “localisation.in / localization.in” are considered as visually non-confusing

Homograph / Homoglyphs:

- vishwakosh.com and vishvvakosh.com (later uses two consecutive “v” characters)
- www.ICICI.com & www.ICICI.com (latter make use of small L instead of “I”)
- Among ASCII characters, 1 (digit) and l (letter l) are similar-looking and so as 0 (digit) and O (letter O). These character pairs can be used for visual tricks.
- “microsoft.com” looks much like “microsoft.com”

Alternate forms

वर्क : वर्क + वर्क + वर्क + वर्क
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Alternate Spellings

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Valid Homophones:

हिंदी versus हिन्दी

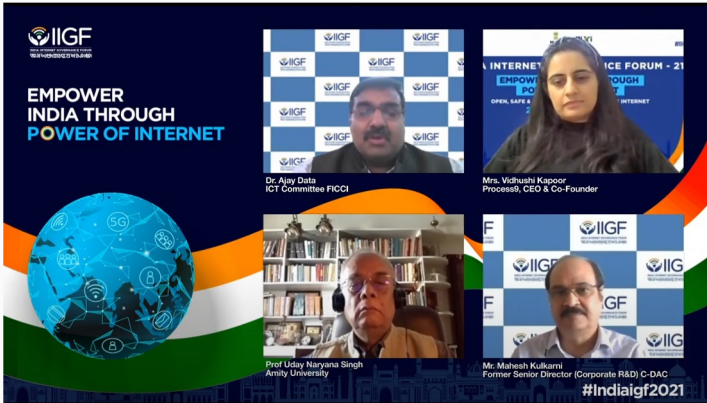
Common Misspellings

हुन्दिया versus हुन्दिया

While formulating the IDN policy for .in we have not considered these variants as historically other domains have always considered alternate spellings of www.color.com and www.colour.com as separate entities

ThinkTrans

Glimpses



Impact and Evolution

India is home to 22 official languages and over 1600 dialects, making it one of the most linguistically diverse nations globally.

Technological challenges: Developing language technologies, such as Natural Language Processing (NLP) and Machine Translation, is critical to bridging digital gaps in vernacular languages.

Digital Inclusivity & Linguistic Diversity:

- Strengthened India's digital landscape by promoting online content and email accessibility in 22 Indian languages
- Catalyzed greater Internet adoption in rural and semi-urban areas, reducing the digital divide

Business Growth for MSMEs & Startups:

- Empowered small businesses to leverage the multilingual Internet for market expansion and customer outreach

Technical Advancement & Industry Adoption:

- Enabled integration of UA principles into digital infrastructure through hands-on workshops and hackathons

Future Focus Areas:

- **Scaling Adoption:** Expanding UA-compliant systems across government platforms, e-commerce, and financial services
- **Innovation & Research:** Driving R&D in UA solutions for seamless integration into India's diverse digital ecosystem
- **Community Strengthening:** Deepening partnerships with academia and industry to sustain UA momentum and leadership



Local Initiatives

Sri Lanka

UA Progress and Strategy for Digital Inclusion in Sri Lanka

- * Sri Lanka initiated the Universal Local Initiative in December 2022. We kick-started the project by popularizing two IDNs: dot Lanka and dot Ilangai
<https://www.youtube.com/watch?v=5xOSRibxW1k&t=2742s> (kick-start press conference)
- Sri Lanka had many workshops on UA in December 2022, 2023, and 2024
- Sri Lanka celebrated UA Day in 2023 and 2024 (<https://universalacceptance.lk/universal-acceptance-day-2024sri-lanka/>)
- By December 2022, Sri Lanka set up EAI-ready email servers and Theekshana began issuing Sinhala and Tamil email addresses in 2023

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UA in Sri Lanka cont...

- * The first UA-ready website was launched for acbc.lk, one of the key Buddhist organizations in Sri Lanka (<https://xn--fzc2cvckfg6amgaaz3ai2fbir9hgf5hg2y7c.xn--fzc2c9e2c/>)
- * Sri Lanka developed a UA curriculum for university students
- * Theekshana, with other government organizations, developed government-wide guidelines for UA-ready websites
- * The second UA-ready website: helpcentre.lk
 - * Theekshana developed Wordpress contact form to accept non-Latin email addresses
- * For more information, please visit universalacceptance.lk



Local Initiatives

Thailand

Progress in UA-Readiness Over the Past 10 Years

- * Introduced Thai IDN (.ไทย) domains to support Thai language usage online
- * Explored EAI and tested Thai email systems
- * Worked with hosting providers and developers to improve UA support in key systems
- * Conducted technical assessments to understand challenges in UA adoption
- * Engaged in global discussions to align with UA best practices and standards
- * Raised awareness through training and workshops for businesses and government agencies



Evolution and Impact of UA Efforts in Thailand

- * Early years:
 - * Initial research, testing, and awareness-building
 - * Pilot projects and deeper collaboration with key stakeholders
- * Recent progress:
 - * Growing recognition and policy support for UA
 - * Encouraging adoption in businesses and government to improve digital accessibility
 - * Ongoing technical improvements to enhance UA-readiness in local systems



Evolution and Impact of UA Efforts in Thailand



Get Involved!

Follow, share, like and engage with the UASG on social media.

Use the UASG hashtag in relevant posts: [#Internet4All](#)

X: [@UASGTech](#)

LinkedIn: <https://www.linkedin.com/company/uasgtech/>

Facebook: <https://www.facebook.com/uasgtech/>

Join the UA Discuss email alias: <https://uasg.tech/subscribe>

Report a problem if you find an application or webpage that is not UA-ready:
<https://uasg.tech/global-support-center/>

For more information, visit <https://uasg.tech> or email info@uasg.tech

ccNSO Universal Acceptance Committee (UAC) Update

Abdalmonem Galila, UAC Chair | مصر.

ICANN82 | March 2025

Purpose ccNSO UA Committee (UAC)



Focus on topics related to UA and
IDNs



Share information by and for
ccTLDs



Liaise with other groups under the
ICANN umbrella



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SEATTLE

Consultation on UA Readiness Drivers <https://sched.co/1vpcZ>

Discussion with ccTLDs on key drivers for UA readiness and their relevance

When? Wednesday, 12 March 2025 (16:30-17:30 local | 23:30-00:30 UTC)

Focus? The role of ccTLDs in supporting local language communities.

Session Highlights

- Presentation by UNESCO on UA readiness and its impact on local language communities.
- ccTLD case studies on their UA experiences.
- Interactive discussion with in-person and remote participants.

Next Steps

- ICANN83 (Prague): Follow-up consultation on blockers for UA readiness from a ccTLD perspective.

Interested in UA and/or UAC?

1

Become a UAC member

Join the ccNSO Universal Acceptance Committee and be an active part of this effort. The committee is open to ccTLD representatives globally.

ccnsosecretariat@icann.org

2

Use the UAC library

Consult the library and/or suggest content to be included.

<https://community.icann.org/x/UoAvEQ>

3

Stay informed

Subscribe to the dedicated ccNSO UA email list.

<https://community.icann.org/x/gYFREw>

Thank you



Abdalmonem Galila
ccNSO UAC Chair | مصر.



Regina Fuchsová
ccNSO UAC Vice Chair | .eu, .eu and .eu

ICANN | ccNSO

Country Code Names Supporting Organization

Overview

- ⦿ UA Remediation of Open Source Software – Arnt Gulbrandsen
- ⦿ UA Curriculum and Academic Outreach - Geraldo Ferreira

UA Remediation of Open Source Software

Remediation Status and Plans

Arnt Gulbrandsen
UA Technology Senior Manager
ICANN - IDN and UA Programs

ICANN82 Prep Week
26 February 2025



Overview

- Work on address syntax: four RFCs in draft status
 - One published recently, one more in the final stages
 - Other standards work is ongoing; we contribute
- Less work than planned on CMSEs
- More work on email instead
 - Code contributions sent to four systems
 - Email client testing
 - Outreach at two relevant conferences
 - Hosting an email hackathon

Code Contributions (Partial List)

- Cyrus (email server)
- Apache James (email library for handling email)
 - Most important on the list in the long run
 - Used by many applications, both open and closed source
- Mozilla Thunderbird (mail reader)
- Mustang (mail reader)

Email

- Dovecot 2.4 now released
 - Dovecot is the most-used mail server used for on-premises mail storage
- CPanel becomes tractable
 - CPanel used by very many smaller service providers
 - CPanel could not be UA-ready until Dovecot became ready
- With this change, most mail reader (smartphone apps, webmail) teams test with at least one UA-ready server
- 98% of IMAP servers now run software that's UA-ready in the latest version
 - [2.51M](#) visible servers
 - 2.43M run older versions of supporting servers ([1](#)+[2](#)+[3](#)+[4](#))
- Not possible to count how many are UA-ready today

UA Curriculum and Academic Outreach

OVERVIEW & UPDATES

Geraldo Ferreira
UA Technical Manager
ICANN - IDN and UA Programs

ICANN82 Prep Week
26 February 2025



- A solid understanding of UA is becoming an important and differentiating skill for software developers
- Developers who create online systems and applications with UA in mind help to ensure their work is ready for the future and works well for current Internet users, as well as the next billion who will come online
- To promote UA awareness and adoption, ICANN has published the [UA Curriculum](#), which consists of 12 modules covering the important topics of IDNs, EAI, and UA

UA Curriculum Integration Program

- Working in collaboration, ICANN and the universities can carry out faculty training and conduct integration of the curriculum into relevant degree programs
- It can be achieved by making **small-scale upgrades** to existing courses or offering a **separate focused** course on this topic
- *ICANN's Role*
 - Provide the UA curriculum materials
 - Conduct a 2-3 day faculty training
 - Provide technical support to the universities for up to 2 years, to integrate the curriculum
 - Promote the collaboration on UA curriculum through social media and other channels
- *Universities' Role*
 - Make relevant faculty members available for the 2-3 day training locally or online
 - Integrate the UA curriculum by updating the courses in the relevant degree program(s)
 - Seek technical support from ICANN as needed for the program
 - Hold quarterly interim discussions during the program to provide feedback

Updates on Academic Outreach

- **Bahrain**

- From 19 to 20 October 2024, we worked in collaboration with the Telecommunications Regulatory Authority (TRA) to conduct an in-person UA Curriculum Faculty Training event for 4 universities
- Conversations are underway with two universities that are considering joining the integration program

- **India**

- From 20 to 22 February 2025, we worked in collaboration with the ISOC Hyderabad Chapter to conduct an in-person UA Curriculum Faculty Training event for 10 universities

- **Next Candidates**

- Universities around the world have expressed interest in the UA Curriculum Integration program, especially from Africa, Latin America, and Oceania
- We've worked with the GSE team to understand these universities' goals for the program, so we can guide and support future candidates

- **Supporting Material**

- **Flyer:** We developed a [flyer](#) for the UA Curriculum Integration Program. It is available in English, Arabic, Chinese, Spanish, French, and Russian.
- **Teaching and Learning Tools:** In collaboration with universities, we are planning the development of teaching and learning tools for the UA curriculum

ICANN82 UA-Related Sessions

For more details on Universal Acceptance, please join ICANN82:

Saturday, 8 March

[ccNSO: Universal Acceptance Committee Session](#)

Tuesday, 11 March

[Updating Systems for the Evolving TLD Landscape](#)

→ Wednesday, 12 March

[Universal Acceptance \(UA\) Progress and the Strategy Forward for Digital Inclusion](#)

Wednesday, 12 March

[ccNSO: Exploring Blockers and Drivers for UA Readiness](#)

Engage with ICANN



Thank You and Questions

Visit us at icann.org/ua

Email: uaprogram@icann.org



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