Universal Acceptance Adoption Strategy - AFRALO

UA Day Program

Simon Mayoye

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Universal Acceptance (UA)

Case Studies Consideration

Universal Acceptance of Domain Names and Emails

Goal

All domain names and email addresses work in all software applications
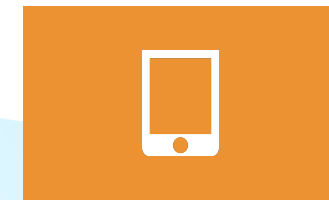
| Accept | Validate | Process | Store | Display |

Impact

Promote consumer choice, improve competition, and provide broader access to end users

EAI Support by Email Tools and Services

Name	MUA	MSA	MTA	MDA	MSP	Webmail
Coremail	Few	All L2	Most L2	Few	All L2	Most L2
MS Outlook.com	Most L1	Most L1	Most L1	None	None	Most L1
Yandex Mail	Few	None	None	Few	Part	Few
Roundcube	Most L2					
Apple Mail	Few					
Apple iOS Mail 14.x	Most L2					
Mozilla Thunderbird	Few					
MS Outlook	Most L1					
MS Exchange Server (hosted)		All L1	All L1	Few		
Exim		Most L2	All L2			
Postfix		All L2	All L2			
Courier		All L2	All L2	All L2		
Gmail	All L1	All L1	All L1	Few		
XgenPlus		Most L2	Most L2	Most	All L2	Most L2
Sendmail 8.17 Alpha		Most L2	Most L2			
Halon		Most L2	Most L2			
Thunderbird 89 beta	Most L1					
Dovecot				None		

See detailed testing results in [UASG030A: EAI Software Test Results](#)

Still The BAD

UA Readiness in 2020
– At a Glance –

Universal Acceptance

9.7% of email servers are potentially configured to support email addresses in local languages and scripts.

11% of the top 1000 websites globally support email addresses in Arabic and Chinese.

98.3% of the top 1000 websites globally support email addressses with short top-level domains.

测试@普遍接受-测试.世界

مشرف@اختبار-سجل.مصر

όνομα@παράδειγμα.ευ

ICANN

Who and How?

⊙ DNS Industry, Service Providers and Technical community(TLD Registrars, ISPs etc):
- o Can we influence domain registries and registrars to offer services that facilitate Universal Acceptance.
- o Can we come up with deliverables after carrying out training and educational activities that allow software developers and project managers to address UA-related issues
- o Test and address UA-related issues in your own products and services
- o Report bugs related to UA in other products and services

o Governments:

UA Case Studies(India)

- ⊙ **Data Xgen Technologies:**
  - o Data Xgen Technologies develops and delivers complete enterprise email solutions for unified communications to clients worldwide.

- ⊙ **Government of Rajasthan :**
  - o The Government of the State of Rajasthan in India's RajMail project has provided all its citizens with a free email address in either Hindi or English, using its own secure email platform provided by local company XgenPlus. This is an important step in the state's eGovernance project.

- New opportunities to obtain a new generic top-level domain (gTLD).

- The application window for the next round is expected to open in Q2 2026.

- The next expansion of the Domain Name System (DNS) will enable people and organizations to manage their presence and identity on the Internet.

- Domain names in various languages and scripts will help build online digital inclusivity.

- An Applicant Support Program (ASP) will benefit applicants in underserved regions and emerging market.

- Includes financial and non-financial support for qualified applicants.

- Learn more: https://newgtlds.icann.org/en/next-round.

The Challenge: Acceptance by Websites

Measurement	Develop UA Curriculum and integrate it to more courses. Focus on business involvement and work on supply and demand side. Improvement in UASG's effectiveness and structure.
Technology	Remediation through code fragments to support UA, and developing training materials incorporating these codes. Developing a UA self-certification guide for websites. Collaborate with strategic stakeholders on technical issues. Study IDN Variant TLDs' impact.
EAI	Develop a comprehensive EAI self certification program with automated tests and score generator. Encourage certification amongst producers and customers. Publish a registry of vetted certification scores. Engage with market share leaders and technical community.
Communications	Generating and updating the UA promotional materials at all Comms channels per stakeholder and in multiple languages. Partner with local journalists and professional PR for marketing campaigns to promote the economic benefits of UA.

Source: UASG039 at https://uasg.tech, published in 2022

Approaches towards UA

- ◉ **Domain Names and Email addresses Standardization:**
  - o There is the need to ensure that domain names and email addresses adhere to established standards, such as those defined by IETF, ICANN among others.

- ◉ **Internationalization:**
  - o To accommodate linguistic diversity and enable users to express their identities in their native languages, we need to support the use of non-Latin characters (Unicode) in domain names and email addresses.

- ◉ **Technical Improvements and Validation Mechanisms:**
  - o There is need to have that domain names and email addresses recognized and supported by all software applications, operating systems and internet-enabled devices.
  - o Implementation of validation mechanisms to verify the syntax and integrity of domain names and email addresses, preventing errors and misuse.

Approaches towards UA(Cont'd)

- **Awareness and Education:**
  - Conducting awareness campaigns and education to users, developers and organizations on the importance of UA and providing guidelines on best practices for implementing UA.

- **Collaboration:**
  - Collaboration among stakeholders, including governments, industry organizations, standards bodies, and technology companies, to address challenges and promote universal acceptance across different platforms and systems.

- **Policy Advocacy:**
  - Advocate for policies and regulations that promote universal acceptance and address barriers to adoption, such as restrictions on domain name registrations or limitations on email address formats.

- **Compliance:**
  - Development of tools and resources for testing and verifying UA compliance in software applications and systems, enabling developers to identify and address issues effectively.

Next Steps and Community Support

- ⊙ UASG and ICANN continue to undertake gap analysis, remediation, training and outreach:
  - ○ Gap analysis – Social media, browsers, programming languages, EAI tools, etc.
  - ○ Remediation – Engaging technology forums (e.g. Github) and bug reporting
  - ○ Training and outreach – Through local initiatives and ambassadors

We request the community to help address UA readiness and lead by example:

1. **Raise awareness** of the technical problems within the community

2. **Upgrade and use UA ready systems** as a community to create the necessary demand, e.g. upgrade email servers, use email in local language

3. **Advocate more broadly** to support UA in their systems (e.g. in e-govt. services; the private sector organizations, etc.)

Such activities may be undertaken in collaboration with UA Local Initiative and UA Ambassadors.

Get involved!

Engage with ICANN – Thank You and Questions

One World, One Internet

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