

An Update to the UASG UASG Community Update– ICANN 57



Universal Acceptance (UA) ensures that all domain names and email addresses can be used by all Internetenabled applications, devices and systems.







- * Welcome Ram
- * Current State of UASG Don
- * Community Outreach Efforts Lars
- * EAI (Email Address Internationalisation) Mark
- * UA @ ICANN IT Ashwin/Sigmund
- * Q&A Edmon





An Update on UASG

UASG Update

- * Who we are now
- * Survey Results
- * Clear Audiences
- * Clear Communications Strategy
- * Documentation
- * Evaluations
- * Fixing the Foundations





Who are now...

- *UA-Discuss has 230 Subscribers
- *Representations from all five ICANN regions
 - *Africa & LAC lower
- * More than 135 Organisations





Survey results...

EAI -Prepare Good Practice Guides	1.56
EAI - Prepare Quick Guide	1.63
Comms: Based on a core message, develop, place and monitor editorial aimed at CIOs and decision makers in target industries.	1.75
Comms: Produce material for Wikipedia based on efforts of UASG	1.75
Monitoring UA Readiness of most common Web sites	1.81
Logging facility to track UA Issues -Develop a facility and service to track complaints of UA issues and pursue remedies.	1.81

Good Documentation...

- Use Cases
- Quick Guides to UA
- Detailed Technical
 Documentation
- Tendering and Contracting language
- FAQs
- **RFCs**
- Knowledge Base

- Quick Guide to Linkification
- Local Initiatives
- EAI Coming
 - Quick Guide
 - Detailed Technical Documentation
 - Good Practice Guide
- Course Notes Coming
- White Paper Coming

Evaluations

- Websites
- Browsers
- Messenger & Social Media
- EAI



Current & Pending Work

- Website Launched
- Targeting Consultants: Scope & Scale Validating the financial model
- University Lecture
- Call Logging
- IDNA review
- Automated Evaluation Tool

- White Paper: Economic, Social and Cultural benefits of early adoption
- Internet Industry Blueprint:
 - Registries, Registrars, ISPs, Hosting
- IGF
- Linkification: Evaluation in Messenger & Social Media Apps



Fixing the Foundation

- UA Software Evaluation Criteria out for review
- Open Source Programming Language UA Readiness Evaluation and Mitigation





Administrative

- Preparing for Elections
- Preparing Budgets





UA & UASG Community Outreach: Brief Overview

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

- Get the next billion users online
- Businesses, Governments &
 Organizations have a responsibility

3 Ensure a better user experiences





Target Audiences

- * People who can MAKE this happen
 - * Developers & system 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, consultants, media, community & industry influencers





UA & UASG Community Outreach: Progress Update

Foundation Materials



Engagement Activities





Priorities

- * Foundation materials
- * Case study program
- * Engagement:
 - * Analysts
 - Associations
 - * Media
- * Announcements





Foundation Materials

Goal: Build a comprehensive library of documents.

- * Published a FAQ Sheet.
- * Published a Fact Sheet.
- * Internal Q&A and Messaging.
- * Industry Analyst Presentation. (in progress)
- * Association Articles. (in progress)
- * Continue with documentation efforts





Case Study Program

Goal: Build portfolio of case studies that demonstrate successful UA initiatives.

- * Identify companies and organizations willing to participate in program.
- * Conduct sourcing sessions to gather details about UA efforts.
- * Craft one-page case studies, including design, to publish on UASG.tech and seed with relevant media and influencers.
- * Current participating companies and organizations include:







Analyst Engagement

Goal: Foster relationships with influential analysts to serve as third-party advocates.

Key Activities:

- Prepare briefing materials with analyst bios and anticipated questions; conduct prep sessions with UASG spokespeople
- * Conduct 1:1 briefings with analysts at top-tier firms:



Lily Varon, Forrester (early November)



Stephen O'Grady, Redmonk (scheduling in progress)



Michael Versace, IDC (scheduling in progress)

* Leverage analysts in future communications to offer third-party credibility and underscore UA relevance





Associations Engagement

Goal: Communicate directly with relevant technology focused associations worldwide as a means of engaging with members who can take action on UA.

- Identify relevant technology member associations worldwide, focusing on key target audiences (e.g. CIOs, software developers):
 - Association of Information Technology Professionals (North America)
 - CompTIA (global)
 - Corporate IT Forum (global)
 - Internet Infrastructure Coalition (global)
 - eco Association of the Internet Industry / EuroISPA (global / Europe)
- Consult with UASG members to identify organizations to which they may belong to leverage existing relationships
- Engage with organizations and identify opportunities to communicate with members (e.g. newsletters, presentations)
- * Provide organizations with appropriate materials for publications and conduct follow-up





Media Engagement

Goal: Engage key technology-focused media worldwide on the topic of UA to communicate its importance and elicit action on implementation.

- Identify relevant technology media worldwide focusing on key target audiences (e.g. CIO,software developer) (completed)
- * Reengage with key targets targeted for initial soft-sounding (e.g. IDG, Motherboard)
- Conduct interviews and identify by-lined opportunities in publications with a CIO readership (e.g. CIO Magazine (to be published Nov.), CIO.com, IT Professional Magazine, etc.)
- * Leverage potential news opportunities:
 - UA automated tool
 - White paper partner with Analysys Mason to determine media angles and map out strategic plan





Influencer Engagement

Goal: Get leading lights in the software industry to be aware of UA and advocate for its pursuit

- * Identify relevant individuals and organisations
- * Create an Advisory Council to add gravitas and perspective
- * Continue with UA Ambassador programme
- * Collect testimonials (video, written)





Other Initiatives

Goal: Get software outsourcing companies and CIO Advising professionals aware of the issues, their opportunities, and get them to spread the message.

- * Build and validate a model of the economic opportunities
- * Seed awareness in leading and niche operators
- * Coordinate with their account management teams with relevant content





What's Ahead

3-9 November 2016

ICANN

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November

- Begin to publish cases
- Association outreach
- Analyst briefings
- Media engagement
- CIO Byline Hits

December

- Finalize plan for White paper
- Finalize plan for automated tool announcement / blog
- Continued association outrech

January

- White paper outreach
- Automated tool
 announcement / blog
- Continued association outreach





What is EAI

- * EAI (Email Address Internationalisation)
- * The ability to send email with IDNs and display correctly
- * The ability to have UTF8 characters in mailbox names



Internationalised Email Formats

Email Address Internationalization (RFC 6530 - 6533) Both portions of the address – the local part and the domain name part – are in Unicode

@example.みんな

IDN-style Email Address Related to RFC 3492 Replaces the Unicode domain name portion with Punycoded domain name From RFC 3492, these representations *should* be equivalent, but there is no guarantee that all software and services will treat them the same

@example.xn-q9jyb4c



Good Practices for EAI From UASG-007

- Users should be allowed, but not required, to enter ASCII Compatible Encoded (or "Punycoded") text in place of its Unicode equivalent
- Convert non-Unicode data to Unicode before display.
- For example, the end user should see "example. みんな" as opposed to "example.xn-q9jyb4c".

- Don't generate IDN-Style email addresses, but do be able to handle them if presented by someone else's software.
- Robust UA-ready software and services may be able to handle and treat all these formats, even those which are not RFC-compliant.
- UA-ready software should generate true EAI email addresses only





This Prohibited Format May be Helpful

Using Punycode equivalents in the local part of the email name is not allowed by EAI and is not defined by RFC 3492

用戶@example.みんな

xn--youq53b@example.xn--q9jyb4

If robust email software allows the <u>entry</u> and <u>conversion</u> of this format, any ASCII-only user can create EAI address book contacts



Where is EAI Happening?

- Microsoft
- Google
- Apple
- Yandex (Russia)
- Coremail (China)
- XgenPlus (India)

- Throughway (Thailand)
- SaudiNic
- OpenFind (Taiwan)
- Horde (USA)
- PostFix (Global)





What UASG is doing

- * Created an group of EAI practitioners
- * Planning Documents
 - * Quick Guide to EAI Aimed at niche email software developers
 - * Comprehensive Technical Guide including troubleshooting guide
 - * Good Practice Guide to EAI
- * Identifying EAI practitioners & Encouraging exchanging of test accounts for interoperability testing
- * Gathering planned for April in Seattle
- * Monitoring efforts at IETF
- * Evaluation of major email software and service providers for EAI readiness













Becoming Universal Acceptance Ready Ashwin Rangan | ICANN 57 | 6 November 2016

Universal Acceptance Ready





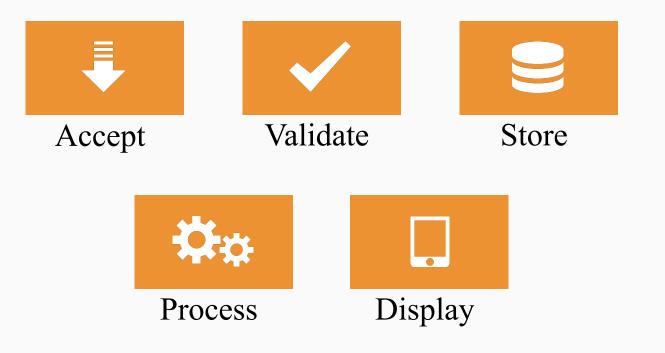
Definition

All domain names and email addresses should be treated equally.

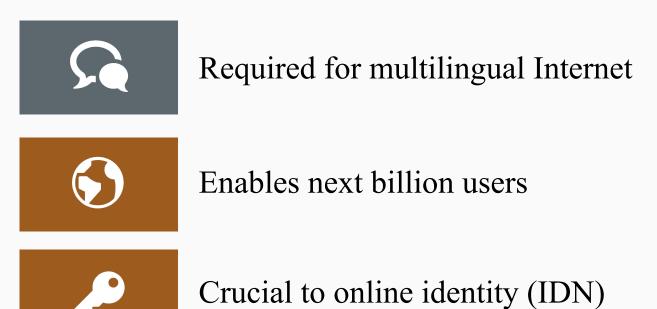
Including:

пример.рф	site.example	名称@网站.域 名
Internationalized Domain Names	New gTLDs	Internationalized Email Addresses













Universal Acceptance-Ready at ICANN



Three-Phase approach to becoming UA-Ready

1. Pilot projects on different platforms

2. Review and compile lessons learned

3. Create plan to update all apps







UA Ready – Pilot Project

- Pilot project for becoming UA-Ready:
 - Project Charter, Manager, Reporting
 - One app/platform: Java, Rails, Python, PHP/Perl

Project: Universal Acceptance Compliance	Project			Ow	ner:	Sigmu	nd Fidyke	2					Date:	ICA
Project Description														
To ensure all services within ICANN are in the stat correctly and consistently by all Internet-enabled a					ander	mail add	esses are a	accepted	l, validated,	stored	land	processed	d and disp	layed
Project Health	iect Health Financial			Project Status: In Progress										
OVERALL Scope Budget Resources	Time	Budget		Spent		Avail		Target Date		Ex	pected	Varia	ince	
• • • •	•	\$0.00)	\$0	0.00		\$0.00		10/19/1	6	10	/31/16	15 d	ays
Progress Open Risks, Issues & Challenges														
User Stories and Rails technical changes not in original set of user stories. Pilot Services - Rails (Atarge) is UA Ready live in production - Java (Wholi) has D upugh backend issue. The front end was completed and has been on hold for a Drugal developer. Drugal developer in process of geting on boarded and access to dev environment - Python dropped as a pilot service as there were no candidate services. Started UA Ready work that was to be part of blow-on project in mid October. Thought not ard to this pilot project, will be UA Ready in November. - Created FEARL environment for testing/QA but dropped due to budget - PHP dropped as a pilot due to resource constraints				2.	developer to help make the necessary modifications which was not anticipated when planning the project. We though the code changes were limited to the Java front end. This work on hold due to no availability of Drupal developers 10/31 Update. Developer in process of being on-boarded and getting access to the development environment. She should be able to begin work next week. 2. Challenge: Making the plot senices UA Ready is taking 4-6x times more than orginal estimates. Three pilots have been dropped from this project due to resources availability. As a result, we are creating a Technical Team Document with Code Singles, QA Test Cases, SCRUM User Stories and a list of technical changes to the Raits pilot we did not write stories for.									
Milestone Timeline	Status	% Comp	Actual	20 Mi		June	July	Aug	Sept			Nov	Dec	2017 Jan
Technical Team Document Draft	J	100	comp		~ y	June	July	Aug	Sept		ot	NUV	Dec	Jall
Pilot Service – Java/Whois		90												
Pilot Service – Rails/Atlarge	~	100												
Project % Completion (per <u>Workfront</u>)		97												
						Cur	rent							



UA-Ready – Lessons Learned

1. Easy – Handle long ASCII domains

2. Hard! – Handle IDN (Unicode)

- Find every place you use a domain
- Be consistent in how you use/store data everywhere
- Unanticipated side effects
- Storage problems (size, sharing, etc.)
- Interaction with 3rd Party applications
- Workflow & program flow problems
- UTF-8 not always enough
- Don't forget email
- \circ Testing is a challenge

名称@网站.域名

3. Important – Document what you learned!



пример.рф

www.mysite.shopping

UA-Ready – Lessons Learned

4. Team knowledge and experience helps

- First time (per team/per platform)
 - Programming effort
 - Testing effort
- Second time (same team/platform)
- Many times (minimum)



500% of guess 300% of guess 33% of 1st time 15% of 1st time

If you estimate 3 weeks (2 dev/1 QA), this means:				
0	First time:	13 weeks		
0	Second time:	4 weeks		
0	The rest:	2 weeks		



UA-Ready – ICANN's New Plan

- 1. Pilot Project: completed
- 2. All Apps: long ASCII domains
 - NOT fully UA-Ready
 - Most new gTLDs are ASCII (.shopping, .cloud)
 - \circ 5 days first time
 - 1-2 days each for rest (automated testing)
- 3. Run Zensar tool for list of applications to target
- 4. Create user stories for full UA-Readiness
 - Add stories to next release of each application
 - Create IDN test environment & handle emails



UA-Ready – Zensar UAC Analyzer

- Online resource
- Crawls through the specified website
- Finds uses of links
- Validates code for handling Unicode
- Offers example fixes to code that is not ready for UA

ZenSar	
🕖 UAC Analyzer	HOME WHAT IS UA WHY UA FAQS ABOUT US CONTACT US
	CHECK IF YOUR SITE IS UA COMPLIANT
	e g zensar com
	EMAIL
	e gizensar.com CHECK MY WEBSITE



Get Involved



Universal Acceptance Steering Group

Helping software developers and website owners understand how to update their systems.



Learn more at http://uasg.tech





