

Universal Acceptance Of Domain Names

Abdalmonem Galila / MEDNS Forum 2019 / 20 Feb 2019

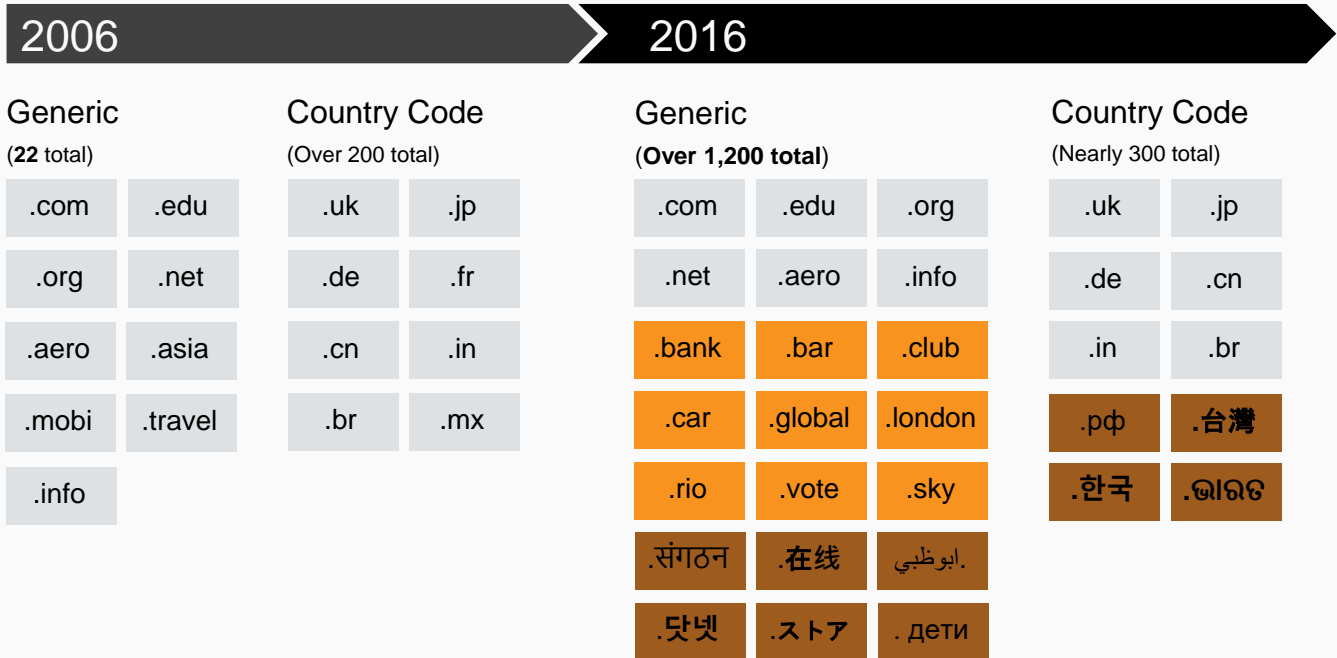


Universal Acceptance

UA at a Glance

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

How serious of a problem is this?



Prepare to do business and communicate with a global user base

Continued expansion of the Internet is allowing access to an increasingly diverse user group

- * There is a growing number of languages and scripts present on the Internet, including non-Latin based, language-specific domain names in Arabic, Chinese and many other scripts.
- * It is required that your Internet-enabled applications, devices and systems accept, validate, store, process and display all domain names and email address appropriately.

Benefits Of UA Adoption

- * There is a combined **USD 9.8 billion annual opportunity** coming from software systems working in harmony with the common Internet infrastructure. This is a conservative estimate.
- * Support for IDNs, which allow domain names in all of the world's languages, could bring **17 million additional new users online**. These include users whose lack of local language services was previously a barrier to a complete online experience.

UA Benefits

If left unaddressed, businesses and organizations face the potential of lost revenue, lost customer satisfaction and more.

Ensuring readiness to accommodate the use of new domains and writing systems will:

- * Connect the next billion Internet users
- * Bring better accessibility to the world via internationalization of the Internet
- * Enable culture, society and economics
- * Provide uninterrupted support for users of new domain names
- * Reduce customer support burden

Five Verbs to UA Readiness



Accept



Validate



Store



Process



Display

About UASG

Universal Acceptance Steering Group

- * Founded in February 2015
- * Tasked with undertaking activities that will effectively promote the Universal Acceptance of all valid domain names and email addresses
- * Comprised of more than 120 companies (including Afilias, Apple, CNNIC, Go Daddy, Google, Microsoft, THNIC and others), governments and community groups

Enabling Universal Acceptance

Doers

- * Developers
- * Systems Architects

Directors

- * CIOs
- * Senior IT Management

Influencers

- * Thought Leaders
- * Government Ministers and Officials

Challenges of The Uptake Of IDNs “Arabic Script”

* The main players “actors” who have challenges that affect the growth of IDNs are :-

❑ Registrants “Users”

- ✓ Awareness
- ✓ Usability
- ✓ Technicality

❑ Registry | Registrar

- ✓ IDN Support
- ✓ Security

Challenges of The Uptake Of IDNs “Arabic Script”

* The main players “actors” who affect the growth of IDNs are “Continue” :-

- ❑ **Applications vendors**

- ✓ Social Media
- ✓ Email applications
- ✓ Office Applications

- ❑ **Service providers**

- ✓ Hosting

Tools & Resources for Developers

Authoritative Tables:

- * <http://www.internic.net/domain/root.zone>
- * <http://www.dns.icann.org/services/authoritative-dns/index.html>
- * <http://data.iana.org/TLD/tlds-alpha-by-domain.txt>
- * See also SAC070: <https://tinyurl.com/sac070>

Internationalized Domain Names for Applications:

- * Framework: <https://tools.ietf.org/html/rfc5890>
- * Tables: <https://tools.ietf.org/html/rfc5892>
- * Rationale: <https://tools.ietf.org/html/rfc5894>
- * Protocol: <https://tools.ietf.org/html/rfc5891>

Unicode:

- * Security Considerations:
<http://unicode.org/reports/tr36/>

Universal
Acceptance
Steering Group info
& recent
developments:
www.uasg.tech

Next Steps...

- * Read the documents at www.uasg.tech/documents
 - UASG003 – Fact Sheet
 - UASG005 – Quick Guide
 - UASG007 – Introduction to Universal Acceptance
 - UASG011 – FAQs

- * Subscribe to the UASG Discussion list www.uasg.tech/subscribe
 - Get your own systems UA Ready
 - Spread the word...