



Journey To Universal Acceptance Ready

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Universal Acceptance Ready

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Universal
Acceptance

2

Lessons Learned
about Becoming
UA-Ready

3

ICANN's Plan to
Become UA-Ready

4

ICANN's Progress
Towards UA-Ready

5

Thoughts About the
Future

6

Thank you
UASG!

All domain names and email addresses should be treated equally.

Including:

пример.рф

Internationalized
Domain Names

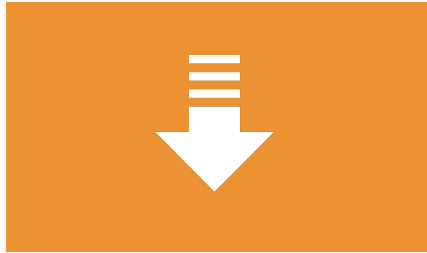
site.example

New gTLDs

名称@网站.域名

Internationalized
Email Addresses

Key Principles



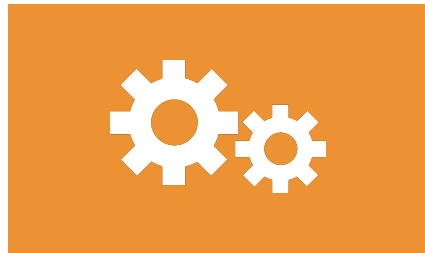
Accept



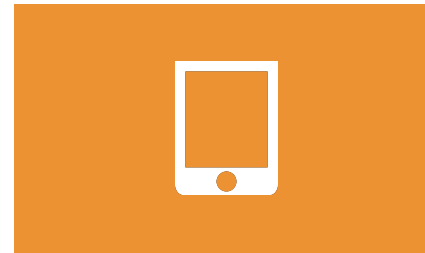
Validate



Store



Process



Display

Why it Matters



Required for multilingual Internet



Enables next billion users



Crucial to online identity (IDN)

UA-Ready – Lessons Learned

1. Easy – Handle long ASCII domains

www.mysite.shopping

- Must find every place you use a domain
- Easy to test domains and emails

2. Hard! – Handle IDN (Unicode)

пример.рф

- Find every place you use a domain
- Be consistent in how you use/store data **everywhere**
- Storage problems (size, sharing, etc.)
- Interaction with 3rd Party applications
- Workflow & program flow problems
- UTF-8 not always enough
- Testing is a challenge

3. Important – Document what you learned!

名称@网站.域名

UA-Ready – ICANN's Plan

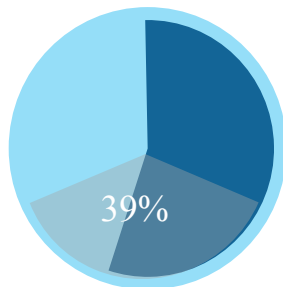
1. All Custom Applications: long ASCII domains
 - NOT fully UA-Ready
 - Many new gTLDs are ASCII (.shopping, .cloud)
 - Expect to complete in 6 months on bug-fix budget
 - Identifies where domains & emails are used!
2. Every time an App has a major update, include UA-R
 - Have preset stories ready to use
 - Use UASG IDN test sites & emails
3. Require UA-Readiness in new off-shelf contracts
4. Review progress in one year and reset plan

Universal Acceptance at ICANN

The Ongoing Task

Business-Directed Services

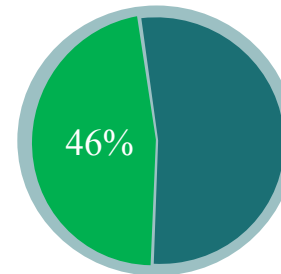
39% Complete



39 Off-the-Shelf

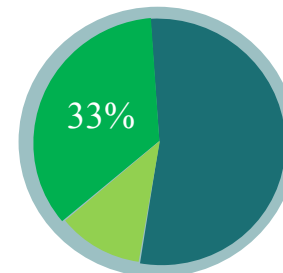
46 Custom In-House

Off-the-Shelf



21 Need contract update
18 UA Compliant or N/A

Custom Services



25 Need to Test & Fix
15 UA Compliant or N/A
6 In-process

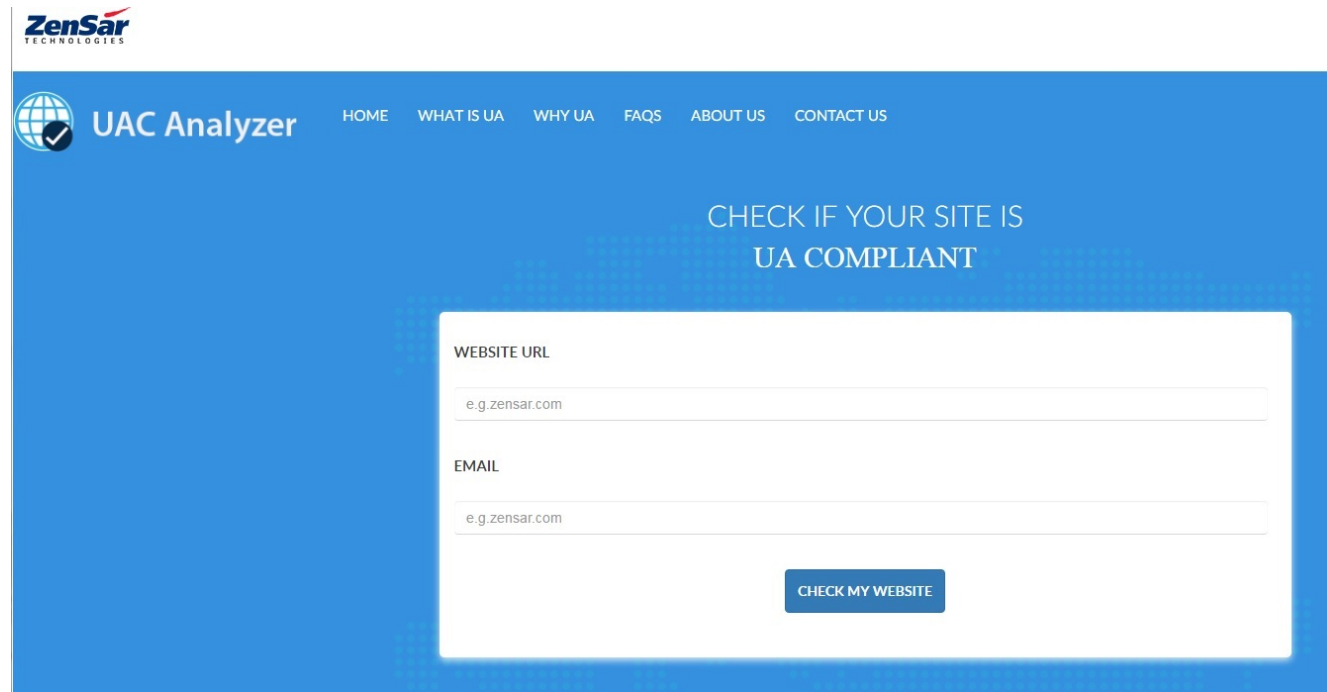
UA-Ready – Thoughts About the Future

As IDN domains become more common:

- Consider a domain in other languages
 - Get a URL (IRI) in other languages
 - One website, but with language-based entry points
- Increased Security concerns
 - Handling multiple character sets increases the attack surface
- Expand what you mean by email
 - Other identifiers for users (wearable, sensors)
 - Device-to-device transactions

Resources – Zensar UAC Analyzer

- **Open Source: code is available**
- Crawls through a specified website
- Finds uses of links
- Validates that site can handle Unicode
- Offers example fixes to code that is not ready for UA



The screenshot shows the Zensar UAC Analyzer website. The header features the Zensar Technologies logo and a navigation menu with links for HOME, WHAT IS UA, WHY UA, FAQs, ABOUT US, and CONTACT US. The main heading reads "CHECK IF YOUR SITE IS UA COMPLIANT". Below this, there is a form with two input fields: "WEBSITE URL" and "EMAIL", both with placeholder text "e.g. zensar.com". A "CHECK MY WEBSITE" button is positioned at the bottom right of the form.



Universal Acceptance Steering Group

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



Learn more at <http://uasg.tech>