Extension of the TLD in the DNS: How Ready Are We?

Universal Acceptance, key for the inclusion of the next billion



Adiel A. Akplogan
Vice President for Technical Engagement

Global Forum 2017
Winnipeg, 02 September 2017

What is Universal Acceptance?

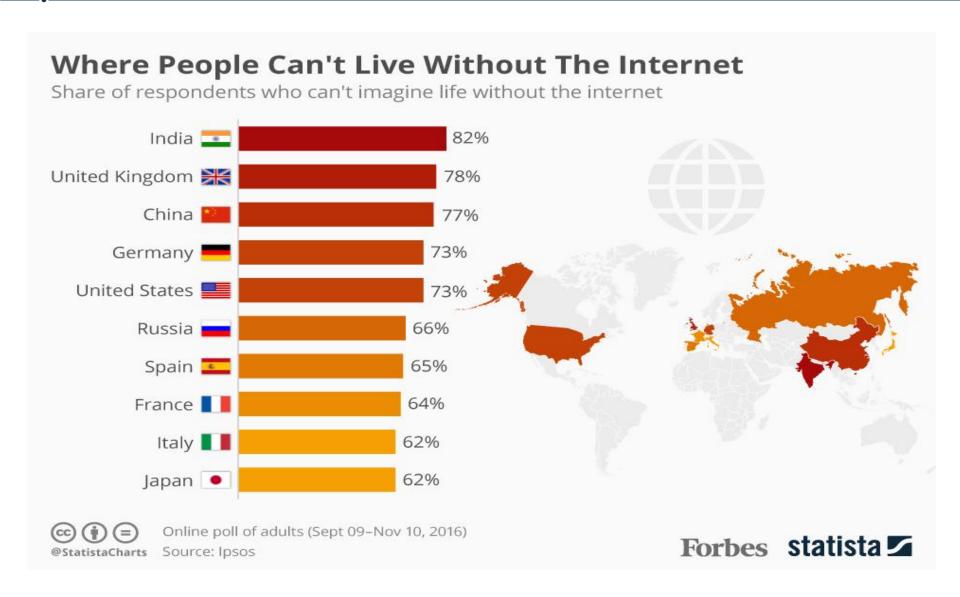
 As regular users, we access the internet using identifiers based on names.



- All domain names that exist in the public DNS must be globally usable and accepted by online applications.
 - e-mail addresses that are built from these domains must be accepted.
 - Web site addresses must be reachable from everywhere.



Who are the other billion internet users





... One Internet

- The Domain Name system has been evolving over the past few years with new TLDs added
 - to better reflect people's sense of identity (.Club, .Networks, .Photography, .Paris, etc...)
 - ... to better reflect **language diversity** (.संगठन, .онлайн, ਕੰਪੜੇ , etc ...)
- With such rapid evolution (more than 1000 new TLDs added since 2013 to the root zone), many systems do not recognize or appropriately process new domain names, primarily because they may be more than three characters in length or in a non-ASCII format.



Tackling the challenge

 In February 2015 the community (including the Industry) has setup a Steering Group to promote the Universal Acceptance (UA) of all valid domain names and e-mail addresses.

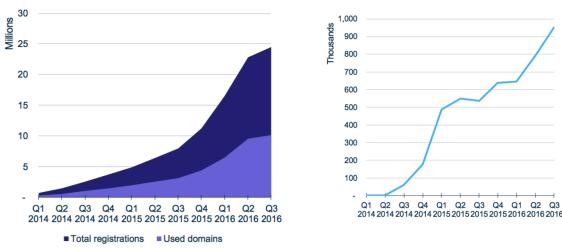
The Internet "works" Users can use applications Internet users and software without problems The domain names used work everywhere, meaning Domain and website owners website owners can effectively use their new identity Application and software Application and software owners can successfully owners serve new customers Source: Analysis Mason, 2016

Virtuous Circle of Benefits



Underlining Business opportunity

Over 1200 new TLDs
24,476,319 new domain names
registered as at Q3 2016
951,940 IDNs registered as at Q3 2016



Take-up and usage of new gTLDs [Source: ntldstats.com, 2016]

Combining the business generated by new domain names and the opportunities created for application developers to make sure these new TLDs are universally accepted, Analysis Mason, in their recent report have evaluated the business opportunity to 9.8 Billion USD - https://uasg.tech/wp-

content/uploads/2017/04/Unleashing-the-Power-of-All-Domains-White-Paper.pdf



Is Your Systems Ready For The near Future?

1. Do your systems recognize and consistently process domain names that are more than 3 characters?

```
http://golf.club, http://my.photography, ftp://ftp.click etc ... jo@golf.club, minimouse@live.webcam etc ...
```

 Do your sysytems recognize and consistently process addresses that are based on Internationalized Domain Names (IDN)

```
http://www.example.みんな, user@example.みんな, günter@bücher.berlin or 用戶@example.lawyer ... etc What about
```

3. Does linkification in your systems properly recognize all these new domain names?



You ar UA-ready when you are consistently able ...

To **Accept** all valid Internet domain names

To **Process** any type of domain names and e-mail addresses

To **Validate** any type of domain names and e-mail addresses

To **Display** any type of domain names or e-mail addresses

To properly **Store** any type of domain names and e-mail addresses



Conclusion

To excel in the long run and be ready for future global opportunities, organizations need to ensure their systems work and keep up with the evolution of naming infrastructure of the Internet – the Domain Name System

Being UA-ready, businesses set themselves up for success by supporting their customers using their customers' chosen identities.



http://uasg.tech



Engage with ICANN – Thank You and Questions



One World, One Internet

Visit us at icann.org



@icann



facebook.com/icannorg



youtube.com/icannnews



flickr.com/icann



linkedin/company/icann



slideshare/icannpresentations



soundcloud/icann