Working session 17 October 2012



- Gervase Markham Mozilla
- Jordyn Buchanan Google
- Xiantang Sun CNNIC
- Edmon Chung DotAsia



Agenda:

- Introduction
- Overview of the Project
- Speakers and Presentations
- Questions and Discussion



On-going effort at ICANN with the goal to raise awareness about the diversity of the domains (gTLDs and ccTLDs, ASCII and IDN):

http://www.icann.org/en/resources/tld-acceptance

Covers acceptability issues due to certain constraints as implemented in software

Does not cover policy aspects of what domains should be allowed or restricted



Why it is important

The DNS is evolving and continues to grow - hundreds of new TLDs are expected to be added in the near future

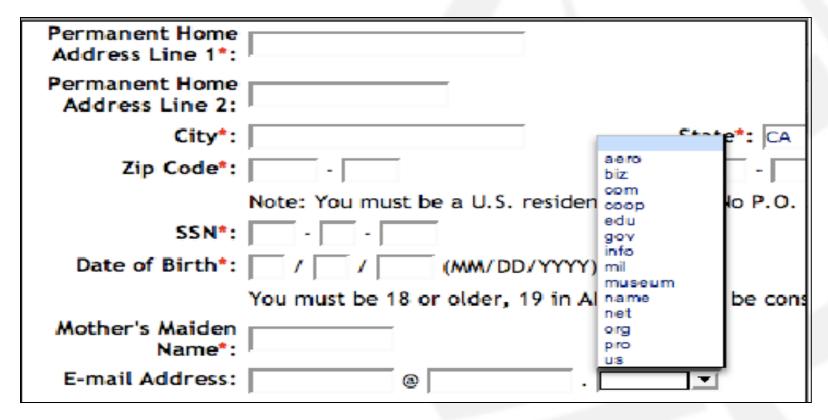
How to minimize the compatibility issues in software on the Internet and ensure that

Users' emails are working



URLs are recognized as such in browsers

Acceptability issues - Examples





Example of Hard-Coded List

	"tz",	// Tanzania		'aero', 'biz',
473	"ua",	// Ukraine		'cat',
174	"ug",	// Uganda		'com',
175 176	"uk",	// United Kingdom	Outlining Tologia	-
477	"um", "us",	<pre>// United States Minor // United States of Ame</pre>		'coop',
478	us, "uy",	// Uruguay	rica	'edu',
479	uy, "uz",	// Uzbekistan	<pre>\$_cctid = array(</pre>	'gov',
180	"va",	// Vatican City St	'ac',	'info',
181	"vc",	// Saint Vincent a		'int',
82	"ve",	// Venezuela	'ad','ae','af','ag',	-
83	"vg",	// British Virgin	'ai','al','am','an',	'jobs',
84	"vi",	// U.S. Virgin Isl	'ao','aq','ar','as',	'mil',
85	"vn",	// Vietnam	'at','au','aw','ax',	'mobi',
86	"vu",	// Vanuatu		'museum',
87	"wf",	// Wallis and Futu	'az','ba','bb','bd',	'name',
88	"ws",	// Samoa (formerly	'be','bf','bg','bh',	'net',
89	"ye",	// Yemen	'bi','bj','bm','bn',	
90	"yt",	// Mayotte	'bo','br','bs','bt',	'org',
91	"уц",	<pre>// Serbia and Mont</pre>		'pro',
92	"za",	// South Africa	'bu','bv','bw','by',	'travel',
			'bz','ca','cc','cd',	'asia',
			'cf','cg','ch','ci',	'post',
			'ck','cl','cm','cn',	'tel',
5 14-19 Orta	Se Burge		'co','cr','cs','cu',	'geo',
EA -			'cy','cy' cy','cz',	
CANN				
TOR	RONTO		'de' ,','dk','dm',	
		Czechos	lovakia?	

.gec

Example of String Length Check

But you can do much more with regular expressions. In a text editor like <u>EditPad Pro</u> or a specialized text processing tool like <u>PowerGREP</u>, you could use the regular expression \b[A-Z0-9._%+-]+@[A-Z0-9.-]+\.[A-Z]{2,4}\b to search for an email address. *Any* email address, to be

All TLDs must be 2-4 ASCII letters (A-Z)



Examples of Causes of some Acceptability issues

- Improper logic in software for checking valid domains
- Lack of IDNA support
- Old software that is not yet upgraded



Activities to date...

- Created discussion forum and dedicated webpage: <u>http://www.icann.org/en/resources/tld-acceptance</u>
- Posted proof-of-concept TLD verification tool at: <u>https://github.com/icann</u>
- Consultations with ICANN stakeholders
- Registries and Registrars activities
- JIG WG
- Technical recommendations
- Outreach campaign



What can you do?

- Check your software do all your applications properly support all domains?
- Inform and educate software developers and others
- Contact us at: <u>tld-acceptance@icann.org</u>



What we are working on now

- Outreach campaign
- Improving TLD verification libraries
- Informational and educational materials
- Your suggestions?



Gervase Markham



Jordyn Buchanan



Xiantang Sun



Edmon Chung



Thank You



Questions

