

Universal Acceptance

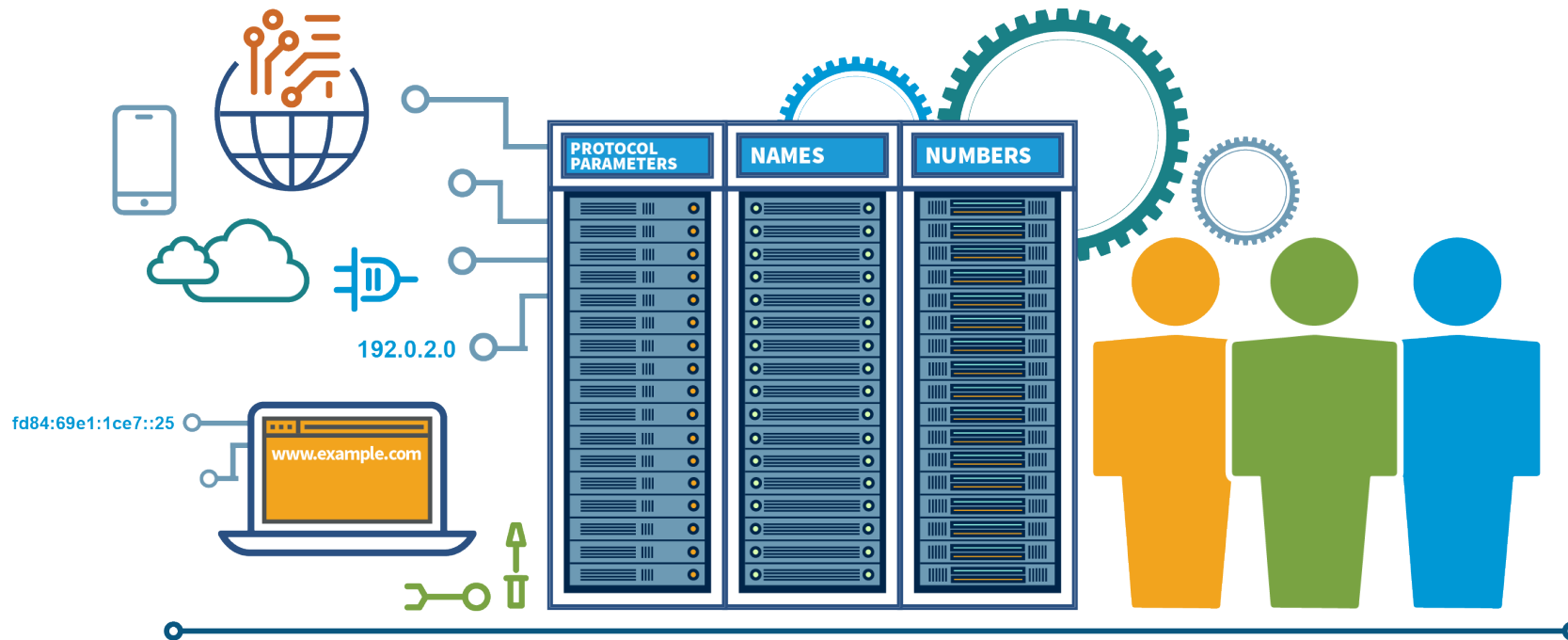


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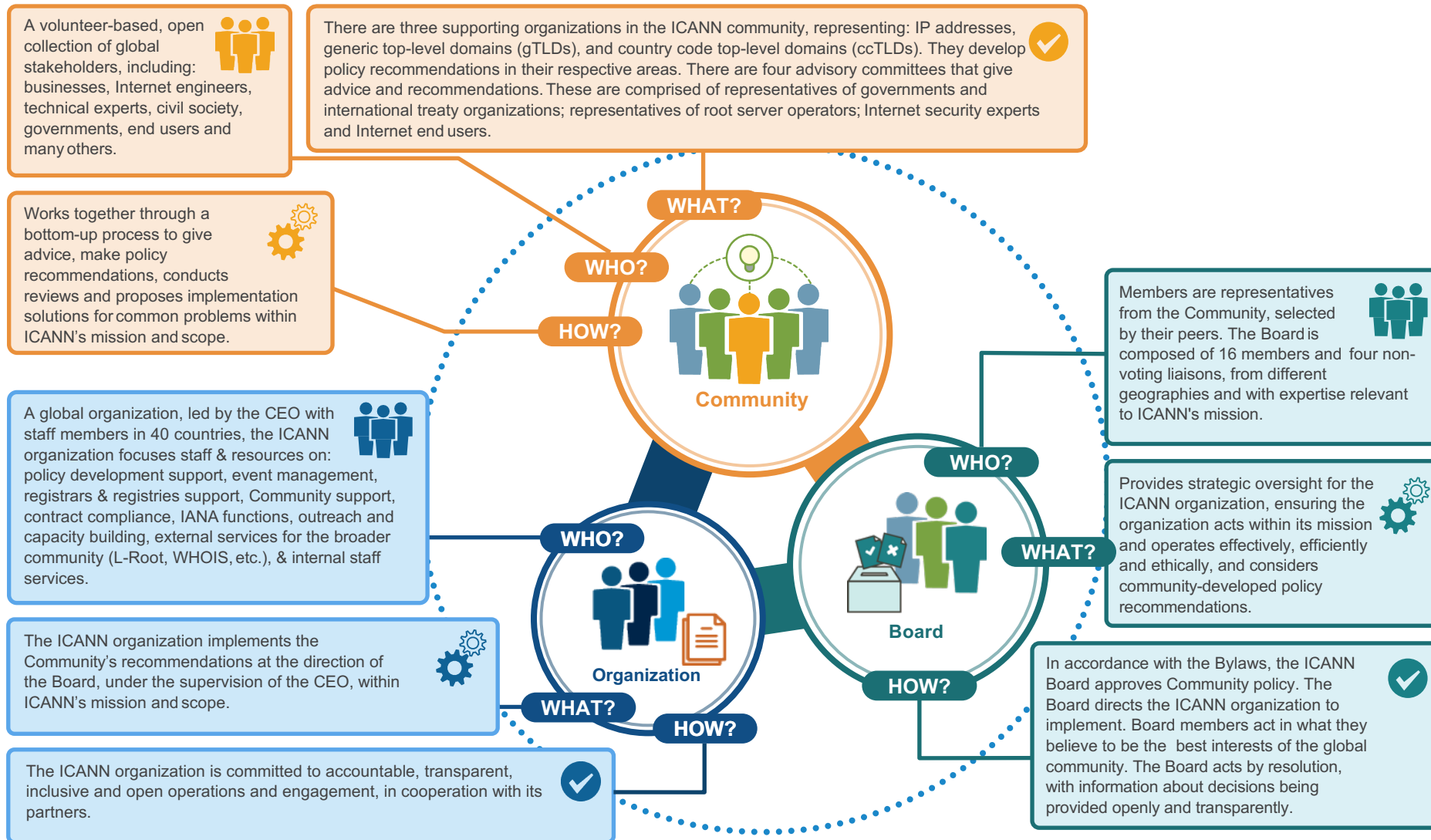
WACREN 2018
15-16 March 2018, Lome - Togo

ICANN IN BRIEF

Coordinating with our partners,
we help make the Internet work.



Who We Are



Universal acceptance

Warm-up Exercise

*Each of the 3 groups below contain lists of Top Level Domains (TLDs) that are valid (approved and delegated by ICANN), except that each list contains one made-up or invalid TLD. **Which TLD in each group is invalid?***

Group A

嘉里
ANALYTICS
BLOCKBUSTER
DIAMONDS
HOTELES
广东
MOVISTAR
இந்தியா
REALLY
政务

Group B

ABC
مصر
ATHLETA
இலங்கை
CANCERRESEARCH
CITIC
新加坡
ESURANCE
FAKE
ไทย

Group C

GMAIL
قطر
JOY
LIKE
huy
ONYOURSIDE
OOO
فلسطين
SILLY
SUCKS

Warm-up Exercise

*The 3 invalid TLDs are highlighted below in **red**. There are 1541 valid TLDs (as of January 2nd, 2018), and the list is continuing to grow.*

Group A

嘉里
ANALYTICS
BLOCKBUSTER
DIAMONDS
HOTELES
广东
MOVISTAR
இந்தியா
REALLY
政务

Group B

ABC
مصر
ATHLETA
இலங்கை
CANCERRESEARCH
CITIC
新加坡
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FAKE
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Group C

GMAIL
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Building Blocks: gTLDs

- * Starting in 2013, ICANN (the organization responsible for the creation and maintenance of TLD assignments) approved the creation of a large number of new TLDs. These new TLDs can represent brands, communities of interest, geographic communities (cities, regions) and more generic concepts. Collectively, all of these new TLDs are known as Generic Top Level Domains (gTLDs).

Original Seven gTLDs

.com
.org
.gov
.edu
.mil
.net
.int

Common cc TLDs

.de
.cn
.uk
.nl
.eu
.ru
.tk

New gTLDs

.top
.xyz
.loan
.club
.网址
.信息
.コム

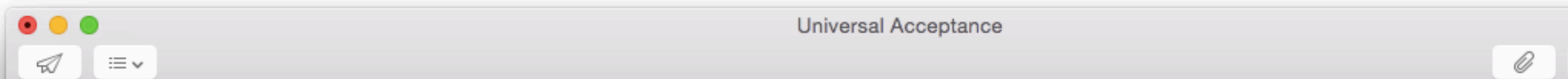
Anatomy of an email address

[username@example.com](#)

测试5@普遍接受-测试.世界

- * *Username/ 测试5*
 - * *Mailbox name*
 - * *Can be in ASCII or Unicode*
- * *Second level domain name (example/ 普遍接受-测试)*
 - * *Can be ASCII or Unicode.*
 - * *Unicode can be represented as Unicode or Punycode*
- * *Top Level Domain name (.com/.世界)*
 - * *Can be ASCII or Unicode*
 - * *Unicode can be represented as Unicode or Punycode*
 - * *Can be 2 to 63 characters long*
 - * *Can ONLY be from an authoritative list that is dynamic and has more than 1,000 choices*

The Reality



Helvetica 12 B I U [list icon] [link icon]

To: Борис@пример.рф

Cc: مارك@رسيل.السعودية <مارك@رسيل.السعودية>

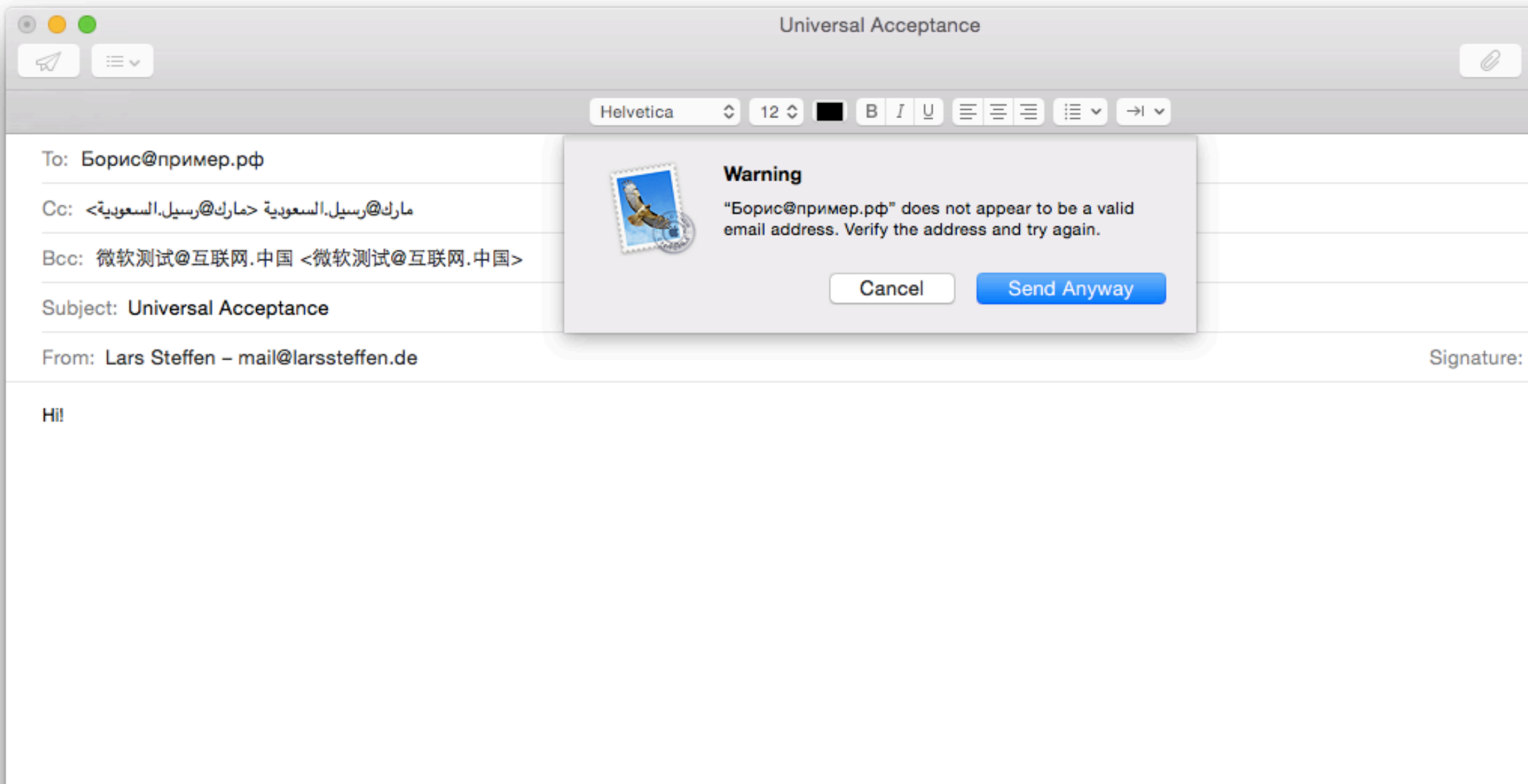
Bcc: 微软测试@互联网.中国 <微软测试@互联网.中国>

Subject: Universal Acceptance

From: Lars Steffen – mail@larssteffen.de

Signature:

Hi!



Definition

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

Universal Acceptance Steering Group

Who is involved...



UASG Activities



Review

Popular Websites, Dev Frameworks, Browsers, OS



Build

Use Cases, Test Environments, EAI Community



Outreach

Live Workshops, Panel Discussions, Presentations



Writing

Knowledge Databases, Whitepapers, Quick Guides

Why should you care?

Email:

Your email...

Password:

Your password...

LOGIN TO ACCOUNT



How to get Universal Acceptance ready?



Universal Acceptance ready

- * Accept, Support, Use and Show Unicode.
- * Store Information in UTF-8.
- * Accept Strings up to 256 characters.
- * Validate as little as possible.
 - * Verify TLDs against authoritative table.
 - * Query domain name against DNS.



Universal Acceptance ready

- * When developing app / service, or operating a registry, consider languages supported.
- * Perform code reviews.
- * Check code points that were not defined when application / service was created.



Universal Acceptance ready

- * Consider mixed-script addresses become more common.
- * Convert non-Unicode to Unicode before display.
- * Use Unicode IDNA Compatibility Processing to match user expectations.
- * End user should see “everyone.みんな” vs. “everyone.xn--q9jyb4c.”

Encountering UA issues?

uasg.tech/global-support-centre

Further information

- * Visit uasg.tech
- * Visit bit.ly/icannUA
- * Visit github.com/icann



- * Get your Universal Acceptance Quick Guide!



Thank You and Questions

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slideshare/icannpresentations



soundcloud/icann