

IANA activities update Afrinic 16, Serekunda, GM

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Manager, Regional Relations -
Africa

Overview

- Making things better
- Continuous improvement
- New service
- Statistics & more

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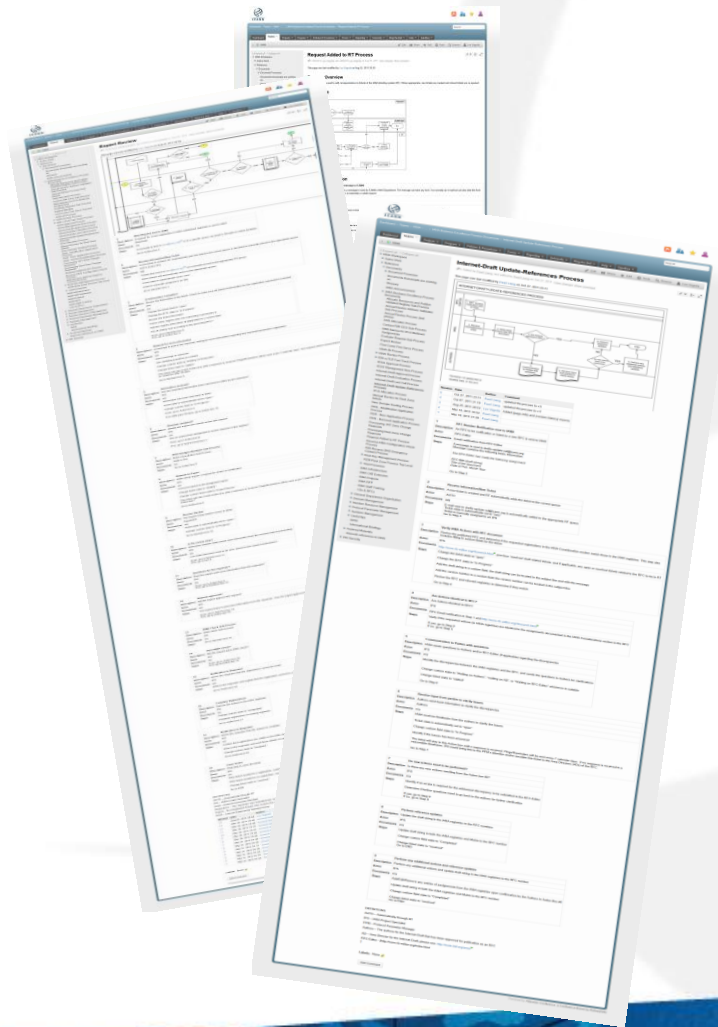
Making things better

Business Excellence

- 3rd annual self-assessment held in January 2012
 - Significant improvements for our customers in processes and key results
 - Next steps: complete that work & improve our planning & execution

Standard process documentation

We have converted over half our core processes to our new standardized format and will be working on more over 2012



Improving our request processes



IANA
Internet Assigned Numbers Authority

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Application for an IPv6 Multicast Address

Application for an IPv4 Multicast Address



Internet Assigned Numbers Authority

the IPv4 multicast address

Application for an IPv6 Multicast Address

IPv6 Multicast Address

To apply for an IPv6 Multicast Address, we are looking for a technical description of the proposed use of the multicast address.

The IESG designated expert will review your request. The expert requires enough detail to understand the necessity. Once you have submitted the completed application form from [RFC 3307](#) and [RFC 4291](#), please note that the application must include:

The IESG designated expert will review your request. The expert requires enough detail to understand why a globally unique multicast address is necessary. Once you have submitted the completed application form below, your application will be reviewed. Further information on multicast addresses assigned to it (see RFC 3306 for further information). For many other uses, a MADCAP server can be used to allocate IPv6 multicast addresses according to the principles set forth in RFC 4291.

If your request is approved, the fields marked "public" will be published in the IPv6 multi-

If your request is approved, the fields marked "public" will be published in the IPv6 multicast address registry.

Your Full Name
Required

Your E-mail
Required

Please read the following questions carefully and provide complete answers.

Local Scope
Required

Can you use a locally scoped address or a MADCAP ([RFC 2730](#)) generated address?

- ☒ Yes (Note: you do not require an address.)
- ☐ No

If you answered "Yes" and wish to proceed, explain why you need a globally unique address.

Permanence
Required

Do you need a permanently allocated address? (Please see [RFC 3307](#) for further information)

☐ Yes

☐ No (Note: you do not need a permanent address)

New IPv4 policy

- ICANN Board ratified the Global Policy for Post Exhaustion IPv4 Allocation Mechanisms by the IANA on 6 May
- Implementation work is under way

Security & continuity



- 4th annual security plan completed in November 2011
- 2nd IANA continuity exercise is planned for 2012, building on the success of 2010

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Customer Survey



- We ran a customer survey to gather structured feedback we can use to improve our services
- Results will be published by the end of June

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Reliable Operations

Recent key ceremonies

- Ceremonies 7 & 8 were successfully completed
- Full transcripts & logs are published on the dns.icann.org web site

SysTrust certification renewed



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Domain Names

[Overview](#)
[Root Zone Management](#)
[.INT Registry](#)
[.ARPA Registry](#)
[IDN Practices Repository](#)
[Root Key Signing Key \(DNSSEC\)](#)
 [Overview](#)
 [SysTrust Certification](#)
 [Special Purpose Domains](#)

DNSSEC SysTrust Certification

ICANN is committed to ensuring the security and stability of the Internet's unique identifier systems. As the DNSSEC Root Zone Key Signing Key (RZ KSK) manager, we are pleased to announce that ICANN's RZ KSK System has [achieved SysTrust certification](#) — an audit by the international accounting firm, PricewaterhouseCoopers, LLP (PwC) to ensure we have appropriate internal controls in place to meet the availability, processing integrity and security objectives for our RZ KSK System.



The Trust Services Principles and Criteria is an international set of principles and criteria developed and managed jointly by the American Institute of Certified Public Accountants (AICPA) and the Canadian Institute of Chartered Accountants (CICA). The SysTrust examination is a rigorous process developed by the AICPA and CICA to provide independent assurance that an organization's systems are reliable. Our SysTrust certification focuses on the following Trust Services principles:

- Availability — the system was available for operation and use, as committed or agreed
- Processing Integrity — the system processing was complete, accurate, timely, and authorized
- Security — the system was protected against unauthorized access

Each principle is supported by well-defined and detailed criteria that encompass a company's infrastructure, software, data, people, and procedures.

ICANN engaged PwC to perform the SysTrust audit, which covered the period of 15 June 2010 through 30 November 2010. PwC evaluated the IT operational practices and controls around the ICANN RZ KSK System and awarded ICANN with an unqualified opinion. ICANN will renew this certification annually.

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New Service

Time Zone Database



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Protocol Registries

[Protocol Registries](#)

[Time Zone Database](#)

[IANA's Performance](#)

[IETF Draft Status](#)

Time Zone Database

The Time Zone Database (often called `tz` or `zoneinfo`) contains code and data that represent the history of local time for many representative locations around the globe. It is updated periodically to reflect changes made by political bodies to time zone boundaries, UTC offsets, and daylight-saving rules.

Latest version

Time Zone Data v. 2011n (Released 2 November 2011) [tzdata2011n.tar.gz](#) (205kb)

Time Zone Code v. 2011i (Released 29 August 2011) [tzcode2011i.tar.gz](#) (135kb)

Mailing List

Edits to the Time Zone Database are discussed on a dedicated Time Zone mailing list. Contributions on information of revised time zones are welcome to be posted to this list.

- [Subscribe/Unsubscribe from Mailing list](#)
- [Mailing list archive](#)

Distribution

We provide access to the Time Zone Database via three methods:

- HTTP: <http://www.iana.org/time-zones>
- FTP: <ftp://ftp.iana.org/tz/>
- Rsync: <rsync://rsync.iana.org/tz/>

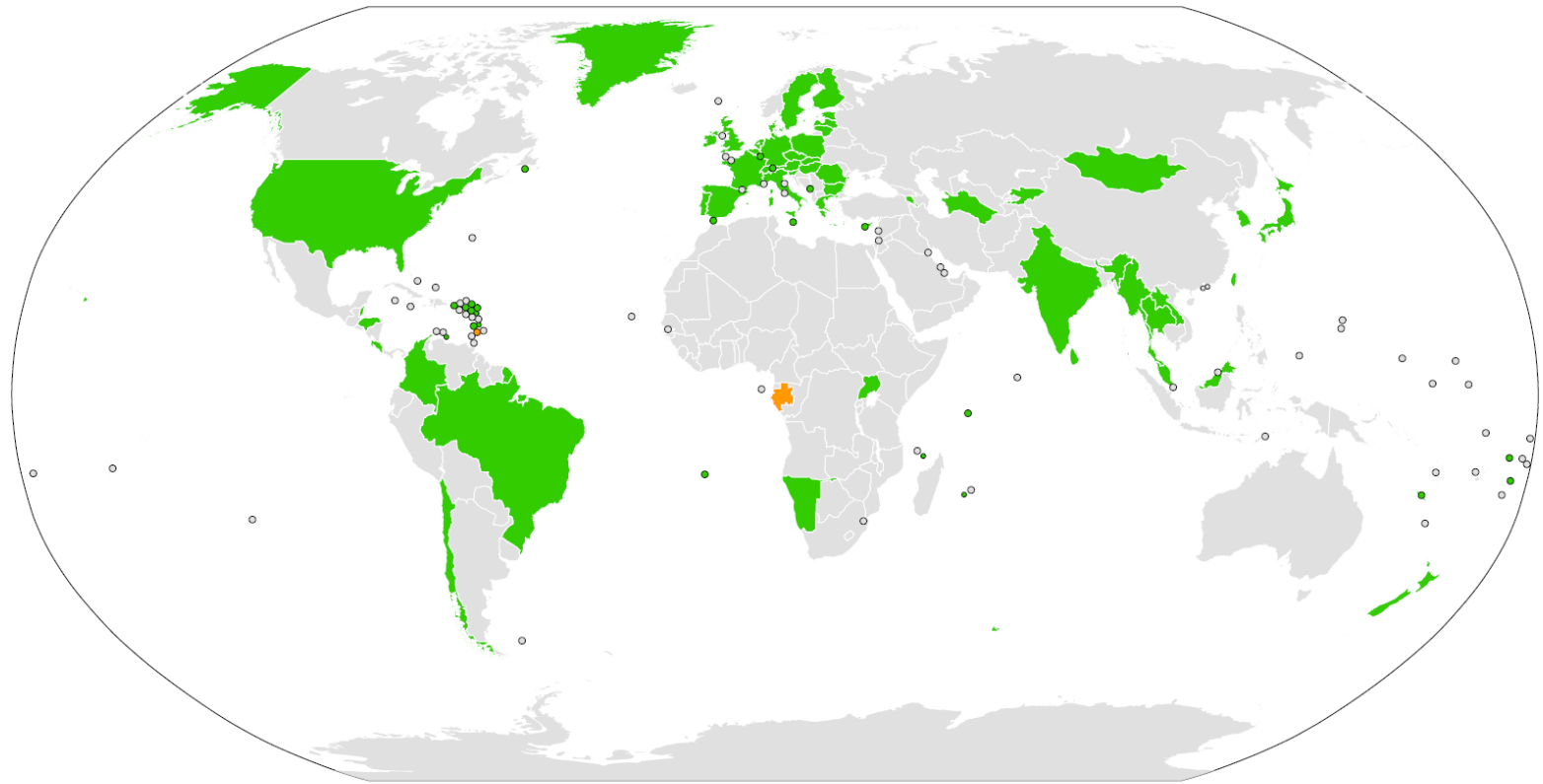
Database Coordinator

As an interim measure, updates to the database will be performed by ICANN as instructed by the [Internet Engineering Steering Group](#) (IESG). Long-term arrangements for management of the Time Zone Database are being finalised in the IETF. See [draft-lear-iana-timezone-database](#) for more information.

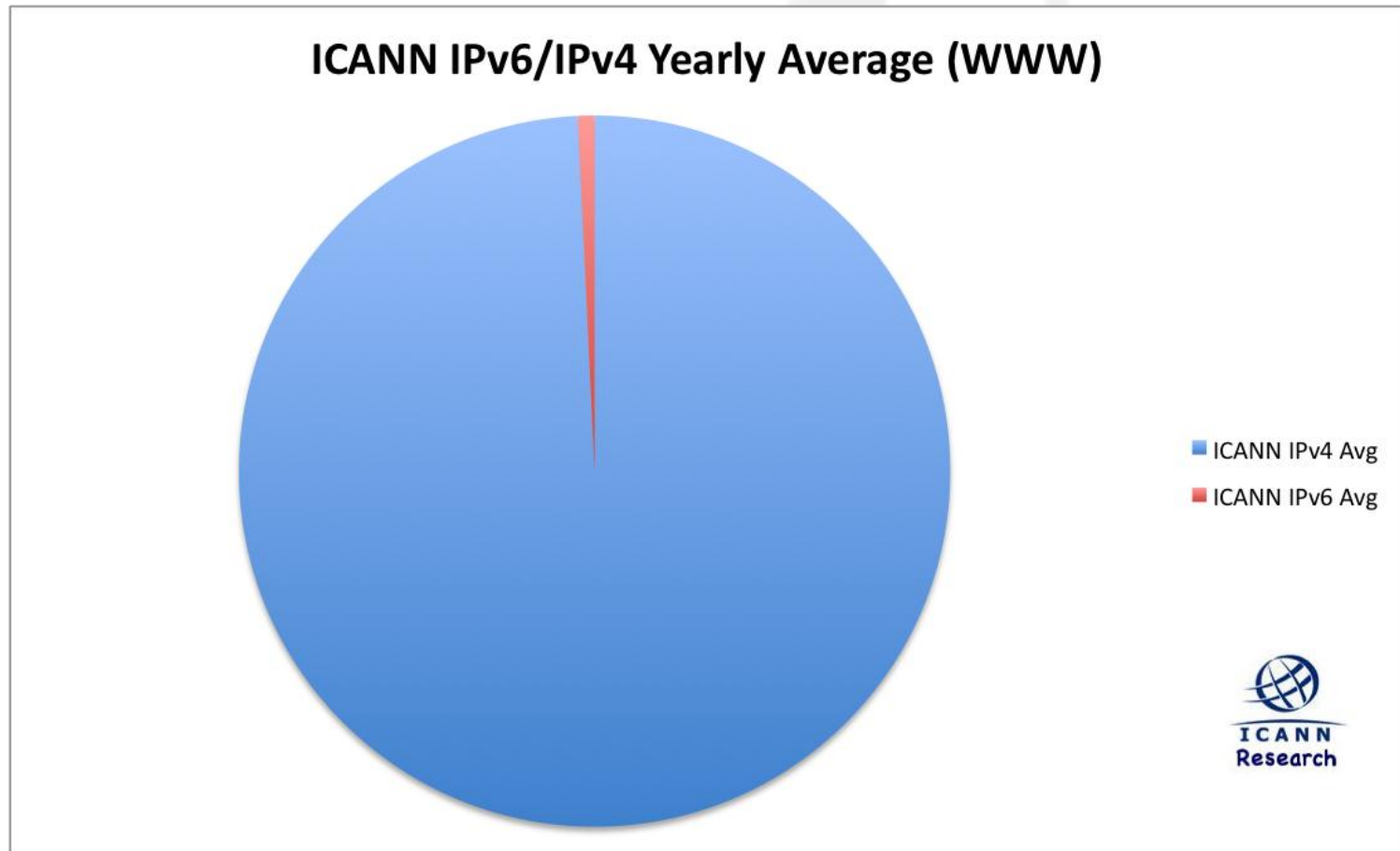
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Statistics

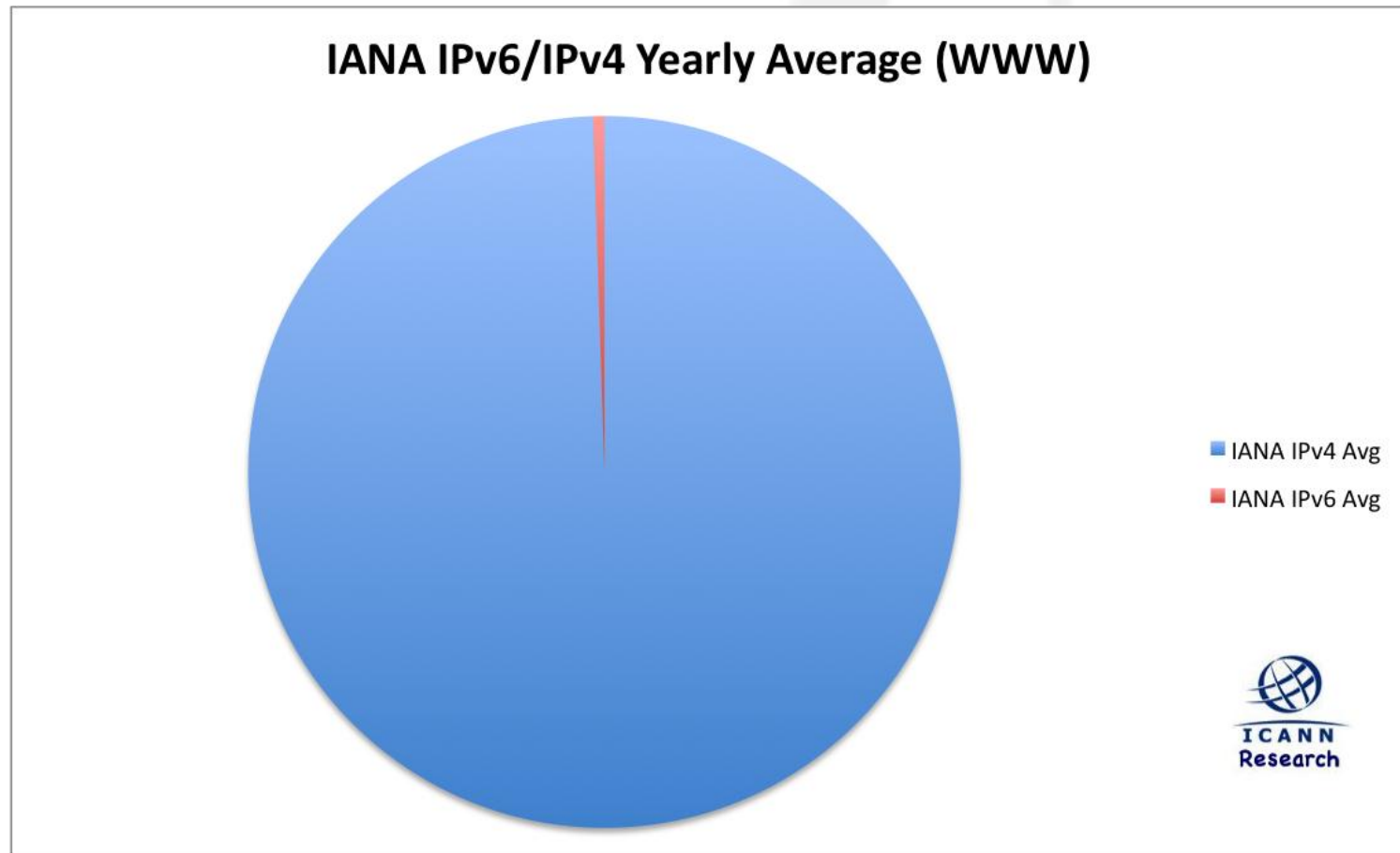
ccTLD DNSSEC map - Mar 2012



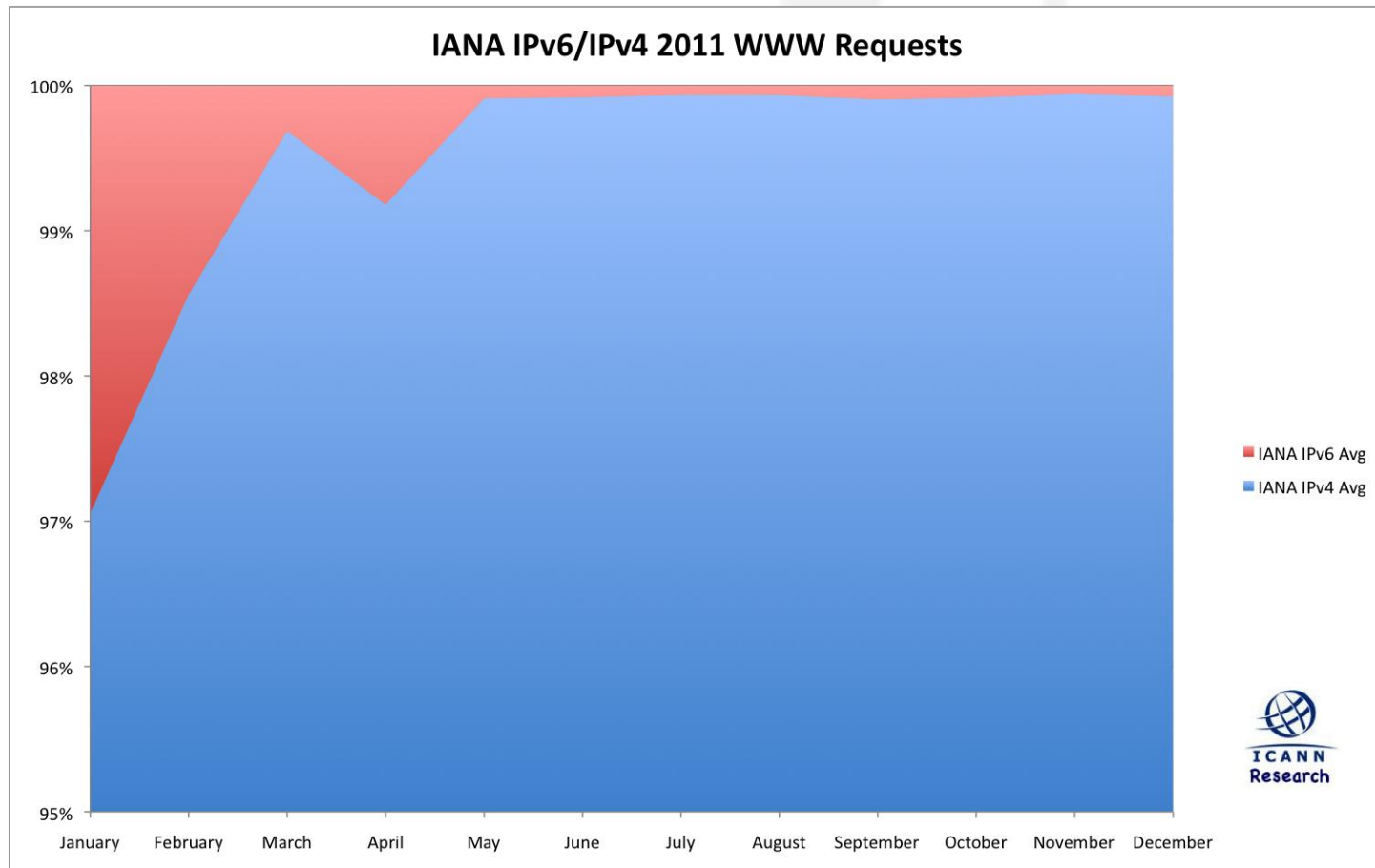
IPv6 web stats (1 / 3)



IPv6 web stats (2/3)



IPv6 web stats (2/3)



But wait, there's more!

Too much to report
here

Check out our
research web site
for a series of daily
reports on the
health of Internet
resources

[http://stats.research
icann.org](http://stats.research.icann.org)



- [BGP view](#)
- [RIR allocation graphs](#)
- [TLD DNSKey Report](#)
- [TLD Wildcard Report](#)
- [TLD DNSSEC Report](#)
- [IN-ADDR.ARPA DNSSEC Report](#)
- [IP6.ARPA DNSSEC Report](#)

Mail terry dot manderson at icann dot org to provide feedback

Thank You

Update on new gTLD program and related projects

Anne-Rachel Inné

AfriNIC 16
Serekunda, GM
12-18 May 2012



Agenda

New gTLD program

IDN variant TLDs

Universal acceptance of all TLDs



New gTLD program

An initiative that enables the introduction of generic top-level domain names (both ASCII and IDN) into the domain name space.

Already launched

2012

| January | | | | | | | February | | | | | | | March | | | | | | | April | | | | | | |
|---------|-----|-----|-----|-----|-----|-----|----------|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | | 29 | | | | | | | 29 | 30 | 31 | | | | | 29 | 30 | | | | | |

TAS was taken offline on 12 April at 11:30am UTC

What happened

- A technical issue in the system allowed a limited number of users to view a limited number of other users' file names and user names in certain scenarios.
- Daily updates:
<http://newgtlds.icann.org/en/>
- FAQ:
<http://newgtlds.icann.org/en/applicants/tas/interruption-faqs>

Next steps

- Once application window closes ICANN will
 - Check all applications for essential completeness
 - Announce applied for strings and information about applicants

Next steps

- Application comment period (~2-month window)
- Objection period (~7-month window)
- Initial evaluation
 - Applications passing initial evaluation may move directly to delegation
 - Failed applications may request extended evaluation
- In cases of objections, dispute resolutions, or string contention, other processes apply

Applicant support program

- Third-party pro-bono services
 - Connecting those seeking and offering pro-bono services
 - Directory maintained on ICANN website
- Financial assistance
 - ICANN's applicant support fund (\$2,000,000)
 - Qualified candidates get reduction on application fee (\$185K down to \$47K)
 - Independent Support Applicant Review Panel (SARP) to review applicants

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New gTLD program

For more updates:

<http://newgtlds.icann.org>

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Universal acceptance of TLDs

What is universal acceptance?



- Making sure software universally accepts all domains (including IDNs)
- Not about policy on what TLDs are “allowed”
- Problem when software checks user input against fixed list of TLDs, TLD character length, and other incomplete or outdated criteria

Examples

<http://example.com>

12:37 PM

<http://اتصالات.امارات>

12:37 PM

<http://جامعة-تيوك.السعودية>

12:37 PM



|



Examples

| | | |
|-----------------------------------|---|---|
| Permanent Home Address Line 1*: | <input type="text"/> | |
| Permanent Home Address Line 2: | <input type="text"/> | |
| City*: | <input type="text"/> | State*: CA |
| Zip Code*: | <input type="text"/> - <input type="text"/> | <input type="text"/> - <input type="text"/> |
| Note: You must be a U.S. resident | | No P.O. |
| SSN*: | <input type="text"/> - <input type="text"/> - <input type="text"/> | |
| Date of Birth*: | <input type="text"/> / <input type="text"/> / <input type="text"/> (MM/DD/YYYY) | |
| You must be 18 or older, 19 in AL | | be cons |
| Mother's Maiden Name*: | <input type="text"/> | |
| E-mail Address: | <input type="text"/> @ <input type="text"/> | . |

- aero
- biz
- com
- coop
- edu
- gov
- info
- mil
- museum
- name
- net
- org
- pro
- us

ICANN's activities to date

- Created discussion forum and dedicated webpage
 - <http://www.icann.org/en/topics/TLD-acceptance/>
- Posted TLD verification tool
 - <https://github.com/icann>
- Consultations with community
- Technical recommendations

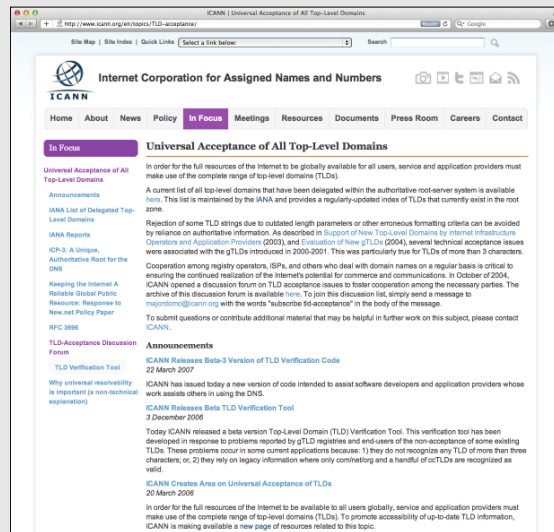
Technical recommendations

- Do you need to check domain validity?
 - If not, don't do it. Rethink why you do it.
- If so, is it an online application?
 - If so, use a DNS query which is instant and up-to-date, don't rely on a fixed list.
- Last case scenario
 - Use a fixed list of TLDs, but make sure it has an update mechanism (e.g. once per day)

Draft outreach materials

Collateral Proposal

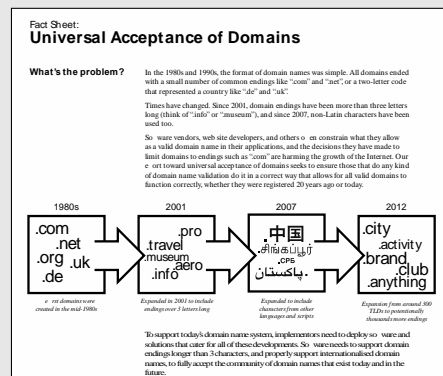
Existing Project Pages



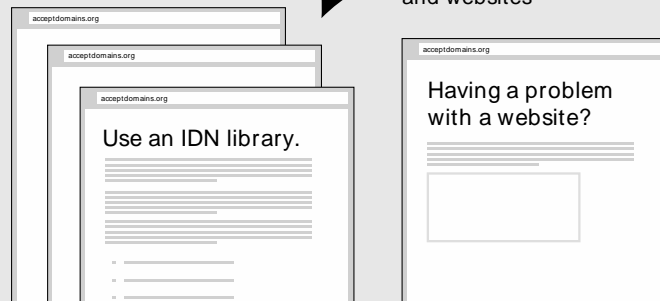
New Dedicated Microsite



New Fact Sheet



on individual topics



Form for end-users to report broken software and websites



Universal acceptance of TLDs

*Send comments and suggestions to
tld-acceptance@icann.org*



IDN variant issues project

Identifying issues related to the use of IDN variant TLDs and creating glossary of related terms

Variant issues project (VIP)

- Phase I: Script case studies
 - Six teams: Arabic, Chinese, Cyrillic, Devanagari, Greek, Latin
 - Comprised of community experts
 - Case study teams completed reports in October 2011

Variant issues project (VIP)

- Phase II: Integrated issues report
 - Summarizes and synthesizes issues identified by case study teams
 - Identifies areas where further work could be pursued

Integrated issues report: key highlights

- Definition of the term ‘variant’
- Range of possible variant cases
- Establishing variant labels
- User experience considerations
- Potential additional work

What is a “variant”?

- No commonly-agreed definition
- Used to refer to a number of different concepts
- Report continues to use the term in a loose sense
- More specific terms are recommended, e.g., “variant” with a qualifier to give more information

Establishing variant labels

- Code point repertoire for the root zone
 - Identify code points that are allowed/disallowed for the zone
- Label generation rules
 - Identify code points that are variants of one another
- A prerequisite for implementing IDN variant TLDs

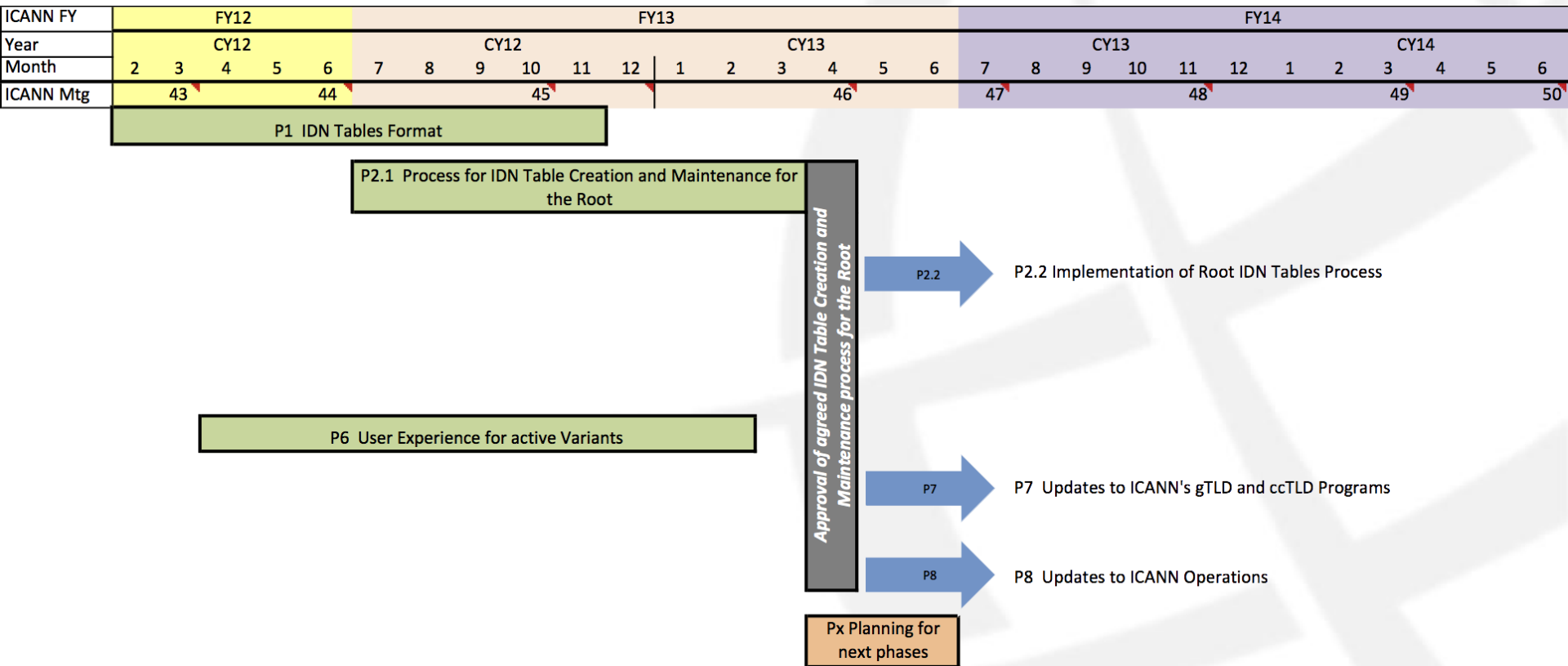
User experience consideration

Many types of users: system administrators, network operators, registries, registrars, registrants, software developers, law enforcement and security investigators, and end users.

Potential additional work

1. IDN tables format updated
2. Process for IDN table creation and maintenance for the root
3. User experience of active IDN variant TLDs
4. Update new ccTLD and gTLD programs
5. Update ICANN and IANA processes

Next steps



Revised project plan is now open for public comment:

<http://www.icann.org/en/news/public-comment/idn-variant-tld-revised-program-plan-04may12-en.htm>

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Thanks Questions?