What's happening at IANA and ICANN?

CENTR General Assembly, Toronto 2006

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Internet Assigned Numbers Authority

Agenda

▸ IANA Contract

▸ Root Zone Optimisation

tomorrow

▸ Staff Update

▸ 24×7 service

▸ Global IPv6 Policy

▸ Protocol Registry Improvements

▸ Joint Project Agreement

▸ Internationalised Domain Names

▸ Registry Services Evaluation

▸ Project Management

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IANA Contract

▸ 1 year term renewable up to 5 years

▸ Same obligations

▸ Amendments foreseen to improve reporting, other process improvements

Root Zone Management
Statistics

‣ Statistics remain steady

‣ Improved statistical method

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September 3

October 10

Sent to IANA

IANA completion

total time (39.8 days)

Current statistical method

▸ Average of duration of transactions (start to finish)

September 3

October 10

Sent to IANA

IANA advises form filled out incorrectly

New form received

Contact confirmations sent

AC responds

TC on holiday responds

Nameserver is lame

Technical checks pass

Request sent to DOC

DOC confirms, sent to VRSN

Observed in root

VRSN completion message

IANA completion

total time (39.8 days)

Reality is more complex

▸ Transactions have a variety of wait states

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September 3

October 10

Sent to IANA

IANA advises form filled out incorrectly

New form received

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Technical checks pass

Request sent to DOC

DOC confirms, sent to VRSN

Observed in root

VRSN completion message

IANA completion

total time (39.8 days)

IANA (13.2 days)   Requestor (16.4 days)   DOC (1.3 days)   VRSN (8.9 days)   Board (0 days)

Statistic Granulatity

▸ Highlight where tickets get "stuck"

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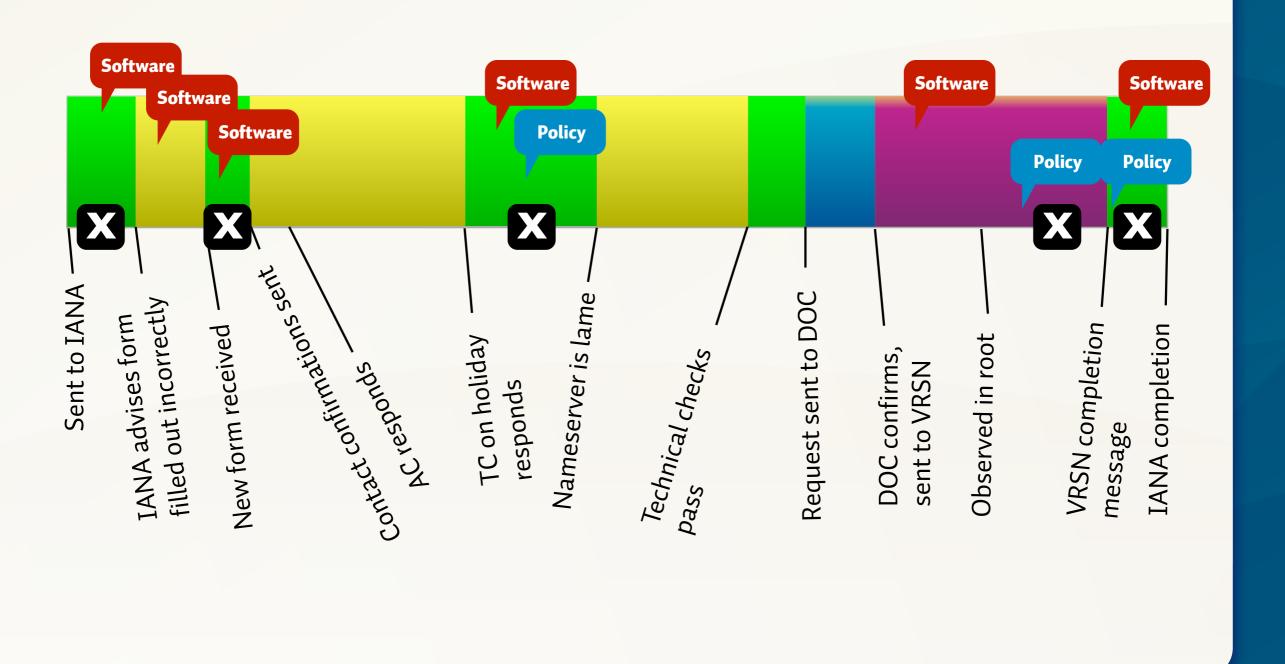
Root Zone Management
Process Improvements

▸ Software development

  ▸ Workflow automation

  ▸ Interface with VeriSign

▸ Procedure development

  ▸ Reviews of procedures where we see ability to improve

  ▸ Starting with technical checks

  ▸ Better authentication mechanisms (hardware keys, etc.)

    ▸ Need to clean up addresses

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Root Zone Automation

▸ Substantial front-end work done

  ▸ Wizard based interface

    ▸ Infrequent use and need to relearn procedures under current
      system

  ▸ See status of requests, what is holding up a request

▸ Back-end work - working with NASK

▸ Sao Paulo is aim to have working subset

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Areas to tighten

▸ Automation Software; Policy/Procedures

Technical Checks

▸ Aim is to create an unambiguous operational procedure on what IANA will check, what will be implemented in the root.

  ▸ Should be sufficiently objective to be automatable

▸ Discussion paper released mid-August 2006

▸ Initial comment period, just closed

▸ Useful discussion/summary session at CENTR Technical Workshop in Amsterdam

▸ A draft new procedure will be created next for review

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Technical check process improvement

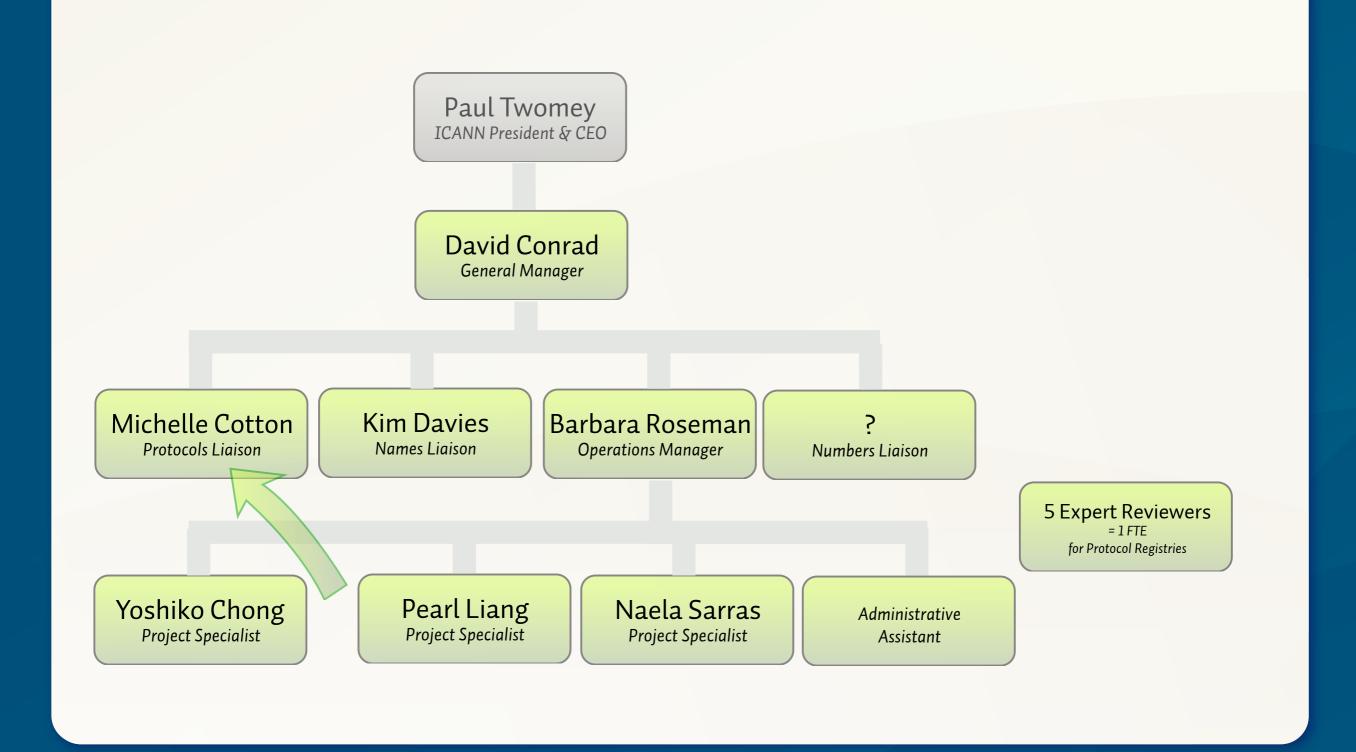|	Mandatory	Warning	VRSN Only
Today (Manual processing)	IANA will refuse to implement change	IANA emails requestor advising of issue, allows them to proceed	Dialogue between VRSN, IANA and Requestor; usually proceeds
Goal (Automated)	Requestor can not submit request until remedied	Issue raised on web form. Can click "Proceed" to accept they understand consequences.	Such anomalies do not exist.

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Future procedural reviews

▸ Glue policy

  ▸ A revised policy that breaks deadlocks

▸ Review of authentication mechanisms

  ▸ Fully automatable secure methods

  ▸ Considers RSA key procedures

▸ Others that are identified

▸ Work on other domain issues

  ▸ .INT, domain sunsets, etc.

❧ Intermission ❧

The IANA Staff

▸ Promotion of Michelle to IETF Liaison – yay!

▸ RIR Liaison to be filled.

ICANN Regional Liaisons

▸ Europe – Giovanni Seppia

▸ Middle East – Baher Esmat

▸ Africa – Anne-Rachel Inné

▸ Canada & Carribean – Jacob Malthouse

▸ Latin America – Pablo Hinojosa

▸ Pacific – Save Vocea

24×7 Support

‣ Mechanism for ccTLD operators to contact IANA at any time

‣ Emergency use only

  ‣ serious emergencies for which root-zone changes will ameliorate

‣ Goes to a call centre which collects details, contacts staff by roster

‣ Staff will contact person back, work out path forward

  ‣ No guarantee of 24×7 fix – "best effort"

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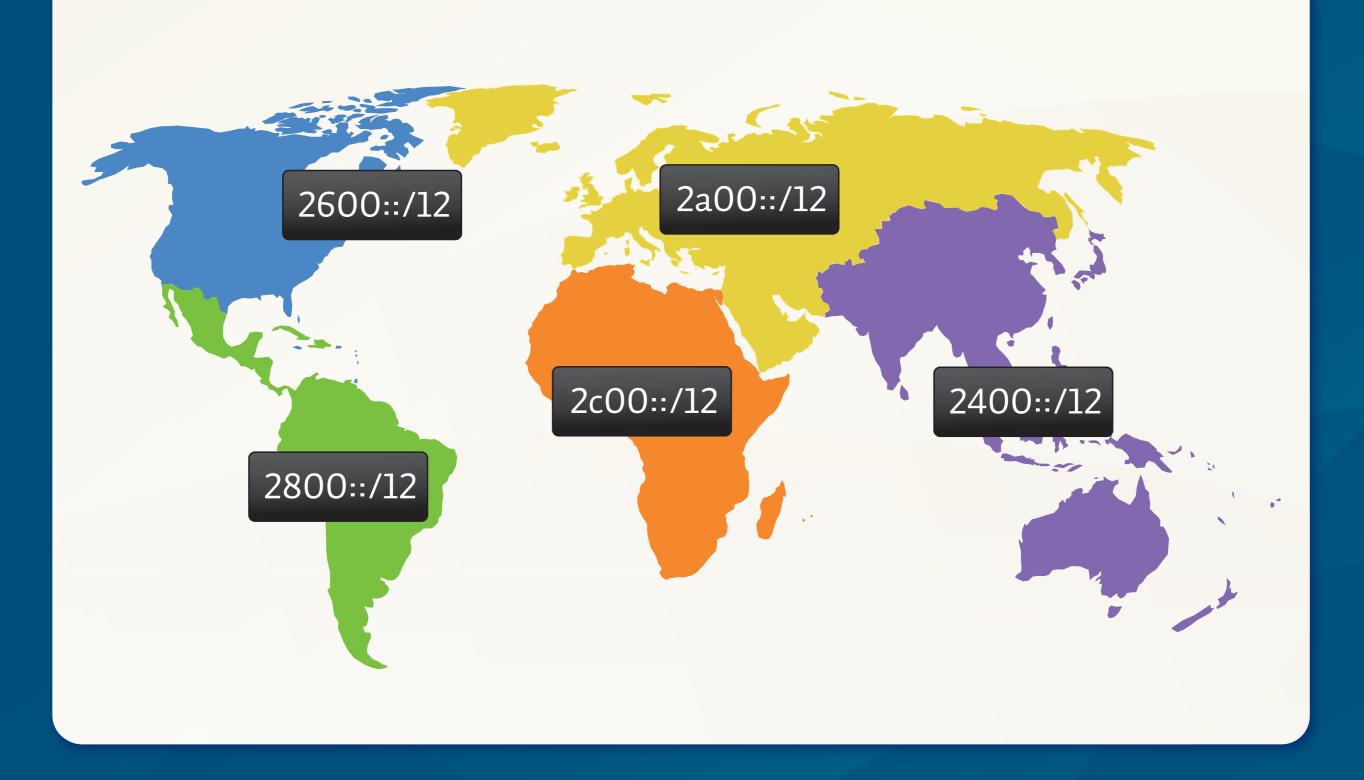
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24×7 Support

+1 310 306 6308

‣ Available from 15 July, 2006

‣ Ensure your contacts are up to date!

    ‣ check at whois.iana.org

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IPv6 Global Policy

▸ Ratified by ICANN Board during September 2006.

▸ Initial allocations handed out October 1, 2006.

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New IPv6 allocations for RIRs

▸ In accordance with the newly enacted global IPv6 policy

Regularising Registries

▸ IANA is undertaking a pilot project to convert registries' *internal* format to XML.

  ▸ protocol registries, number resource registries

  ▸ not domain registries (a separate project is automating those)

▸ Ultimate aim is to allow multiple formats to generated

  ▸ Legacy (txt), HTML, XML, CSV, JSON, whatever we are asked…

  ▸ Syndication & History: RSS, Atom, diff files, mailing list notifications etc.

▸ Net result: better machine readable registries

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New contracts and agreements

▸ New IANA Contract
October 1, 2006 through September 30, 2007 (12-60 months)

▸ New agreement for ICANN
October 1, 2006 through September 30, 2009 (18-36 months)

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Joint Project Agreement

▸ A new document to replace the MOU expired 30 September, 2006.

▸ 3 year term, with an 18 month review period

▸ Developed after consultations between DOC and ICANN, and community, which provided important input. Included:

  ▸ NTIA held consultations, including with other governments, ccTLDs and other entities outside US.

  ▸ ICANN's Presidents Strategy Committee held consultations on the post-MOU environment.

Joint Project Agreement

▸ Positive signal in the maturation of the relationship, transition of responsibilities

▸ Recognition of ICANN's responsibilities

▸ Major changes:

   ▸ No longer report to the DOC, instead annual reports directed at the community.

   ▸ 18 month review opportunity

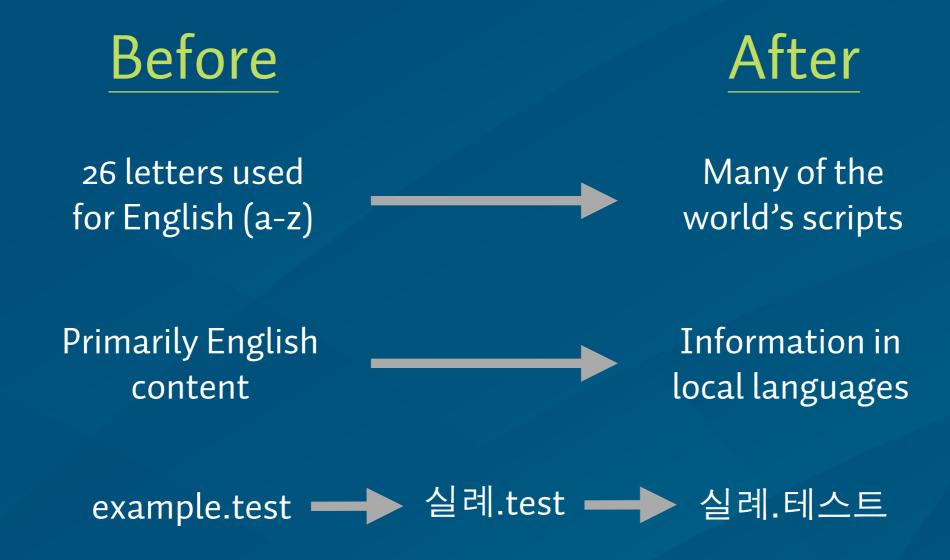   ▸ Affirmation of responsibilities document annexed. Responsibilities were developed with community.

Internationalised Domain Names

▸ Key task: IDNs in the root

▸ IANA involvement

  ▸ general advice

  ▸ systems development to cope with IDNs

  ▸ IDN procedures

  ▸ testing participation

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Internationalisation Overview

Before

After

26 letters used
for English (a-z) ➜ Many of the
world's scripts

Primarily English
content ➜ Information in
local languages

example.test ➜ 실례.test ➜ 실례.테스트

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IDN test in the root

▸ Goal
"Demonstrate that the insertion of IDN strings into the root has no appreciable negative impact on existing resolutions."

▸ After laboratory test, plan is to introduce no value labels in the root (.example.test)

▸ Procedures for delegation, redelegation etc. will be developed

  ▸ Emergency revocation procedure

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Other IDN work

▸ Revising the protocol (see RFC 4690)

  ▸ fixing bugs that have appeared

  ▸ making it more flexible (incl. no reliance on Unicode 3.2)

▸ Revising IDN guidelines

  ▸ IETF process rather than ICANN publication

ICANN's IDN Program Plan

‣ encompasses all the actions & deliverables to ultimately deploy IDNs.

‣ Several projects – planned and managed somewhat independently:

  ‣ Technical testing

  ‣ Policy development

  ‣ IDN Guidelines

  ‣ IANA Processes

  ‣ Outreach Planning

  ‣ Communicatons Planning

Other IDN topics

‣ Review and revision of the technical "IDNA" protocol

‣ Impact of IDN changes to registrars, registries and registrants.

‣ IANA repository of IDN practices

‣ Language-script specific issues

‣ Dispute issues and rules (as they need to apply globally)

‣ Statistics on registration growth of IDNs

http://www.icann.org/topics/idn/

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Registry Services Evaluation Procedure (RSEP)

▸ A method for gTLD Registries to obtain fast answers on introducing new services

▸ Provides a pathway for services to be evaluated for technical and competition concerns.

▸ If ICANN staff can not rule for or against in 15 day time window, goes to 'RSTEP' panel for substantial review.

▸ Launched in September 2006.

.name two-letter proposal

▸ Remove contractual prohibition on "xy".name

  ▸ Asian demand for john.li.name, craig.ng.name etc.

▸ Currently in 15 day review period by staff

▸ GNR has contacted several ccTLDs to ask for consent

  ▸ Contract allows specific entries to be released with government/
    cctld/ISO3166MA consent

▸ Aware of technical concerns

  ▸ Old style RFC1535 issues, new-style transient DNS failure issues

  ▸ Working with some ccTLD operators to get good statistics.

▸ Non-technical issues

  ▸ Is it IPR? If there is no tech issue, still may be political one.

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Other current evaluations

▸ Wildcards

  ▸ .travel request to help searching

  ▸ SiteFinder by another name?

  ▸ Sent to RSTEP

▸ Bulk transfers, excess deletion fees

▸ http://www.icann.org/registries/rsep/submitted_app.html

Project Management

▸ Summer* period spent on staff training and work on formalised project management

  ▸ "PMI" methodology

  ▸ Formal project managers, project sponsors, risk analyses, structured milestones, deliverables, resource requirements, Gantt charts, etc.

* winter

Non-ICANN news

ϑ Robin Kondrat ϑ

15 September 2006
boy, 4.1kg

Thank you for your attention!

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