IANA Updates for ccTLD Managers

ICANN São Paulo, December 2006

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Internet Assigned Numbers Authority

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Agenda

▸ IANA Contract Renewal

▸ Systems Development (statistics, automation, 24/7)

▸ Policy Development (technical checks, glue, .int, sunset)

▸ Other (staff, security plan, .name, project management, IPv6)

New contracts and agreements

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

    ▸ Same obligations

    ▸ Amendments foreseen to improve reporting, other process improvements

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

Systems Development

Statistics

‣ Statistics remain steady
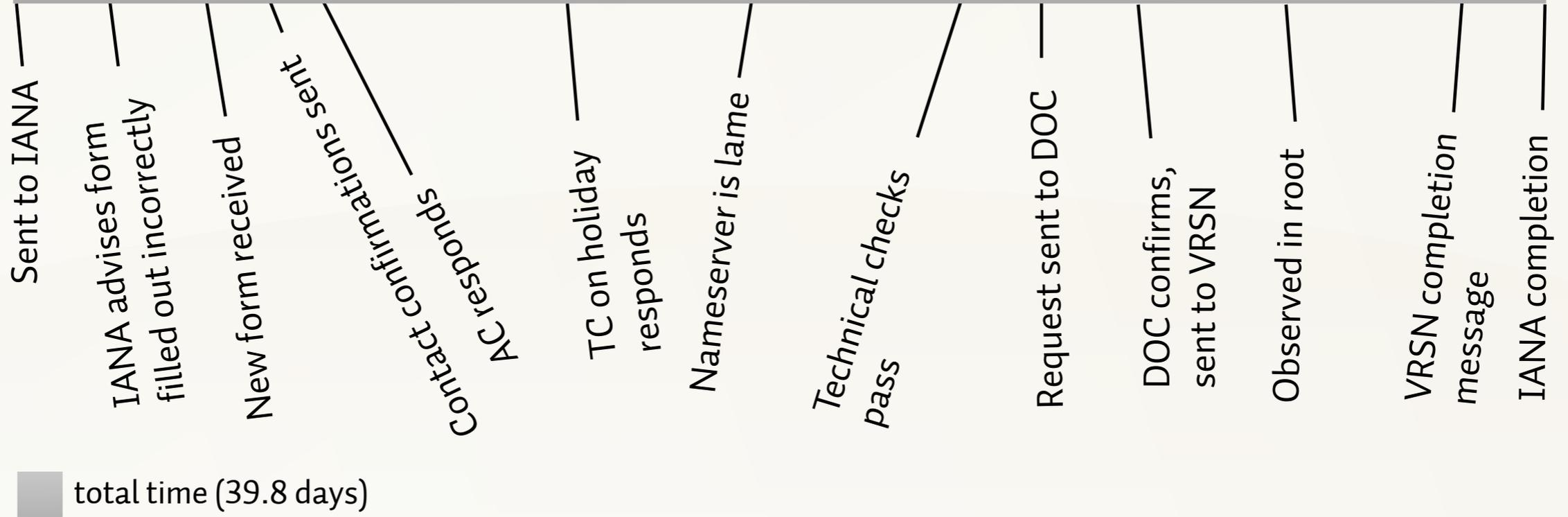
‣ Improved statistical method

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)

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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
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)
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

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Improving root publication efficiency

▸ Replace PGP-signed email transactions with EPP

  ▸ EPP transaction between IANA (as client) and VeriSign (as server)

  ▸ Specific extensions relating to root zone management data
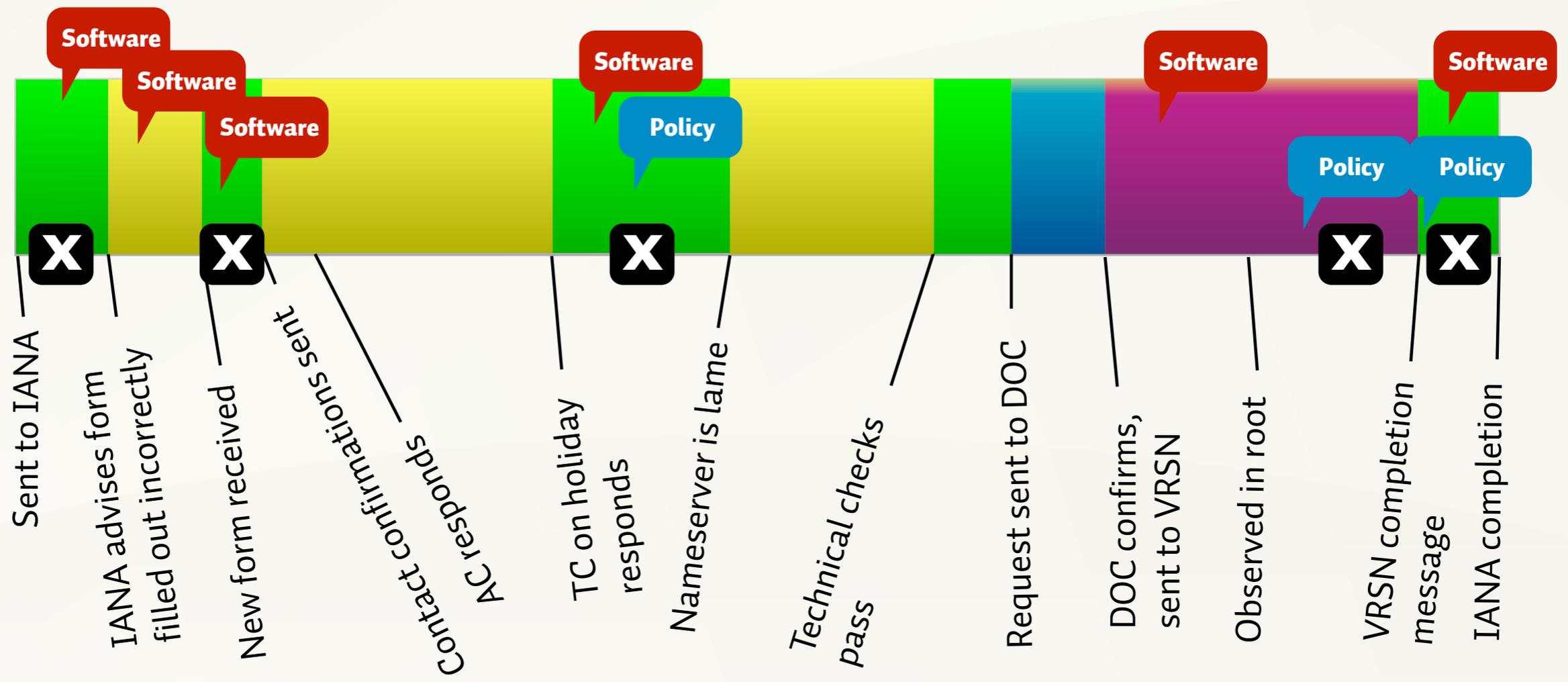
Areas to tighten

▸ Automation Software; Policy/Procedures

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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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24×7 Support

+1 310 306 6308

‣ Available since 15 July, 2006

‣ IANA office will be closed 24 December 2006 - 2 January 2007

  ‣ Email etc. will still be read, seemingly non-urgent requests may not be actioned

  ‣ If there is an emergency over this period, call the number!

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Policy Reviews

Policy Review: 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

  ‣ http://tinyurl.com/yh38fc

‣ Initial comment period closed

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

‣ A draft new procedure will be created next for review

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.

Policy Review: Glue Policy

‣ Alterations to shared glue must be approved by every affected AC/TC.

  ‣ Changes to popular servers (RIPE, UltraDNS, etc.) affect many different TLD operators.

  ‣ Only one AC/TC doesn't have to respond to derail.

  ‣ Some tickets have taken over a year (see Wellington presetnation)

‣ Something better is needed!

‣ Some suggestions: Reduce acceptance threshold, mandatory advisement period, introduce host objects.

‣ http://tinyurl.com/t7965

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Twins born 26 September 2006

c̶s̶ < me Montenegro

rs Serbia

- ISO 3166 MA announced two new country codes
- .cs was never delegated, Serbia & Montenegro has used .yu (former Yugoslavia)
- Eligible parties may now apply to IANA to operate .me or .rs
- Interesting question: transitioning from .yu – how?

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Policy Review: ccTLD Sunsets

▸ Retired ISO 3166 still exist in the root

▸ Need a predictable method for removal, bearing in mind transition issues

▸ Current TLDs fall under this group:

  ▸ .SU – Soviet Union

  ▸ .TP – East Timer

  ▸ (.YU – Yugoslavia)

  ▸ (.GB – Great Britain)

▸ http://tinyurl.com/y8hy7m

Future procedural reviews

▸ Review of authentication mechanisms

  ▸ Fully automatable secure methods

  ▸ Considers RSA key procedures

▸ Others that are identified

Other Updates
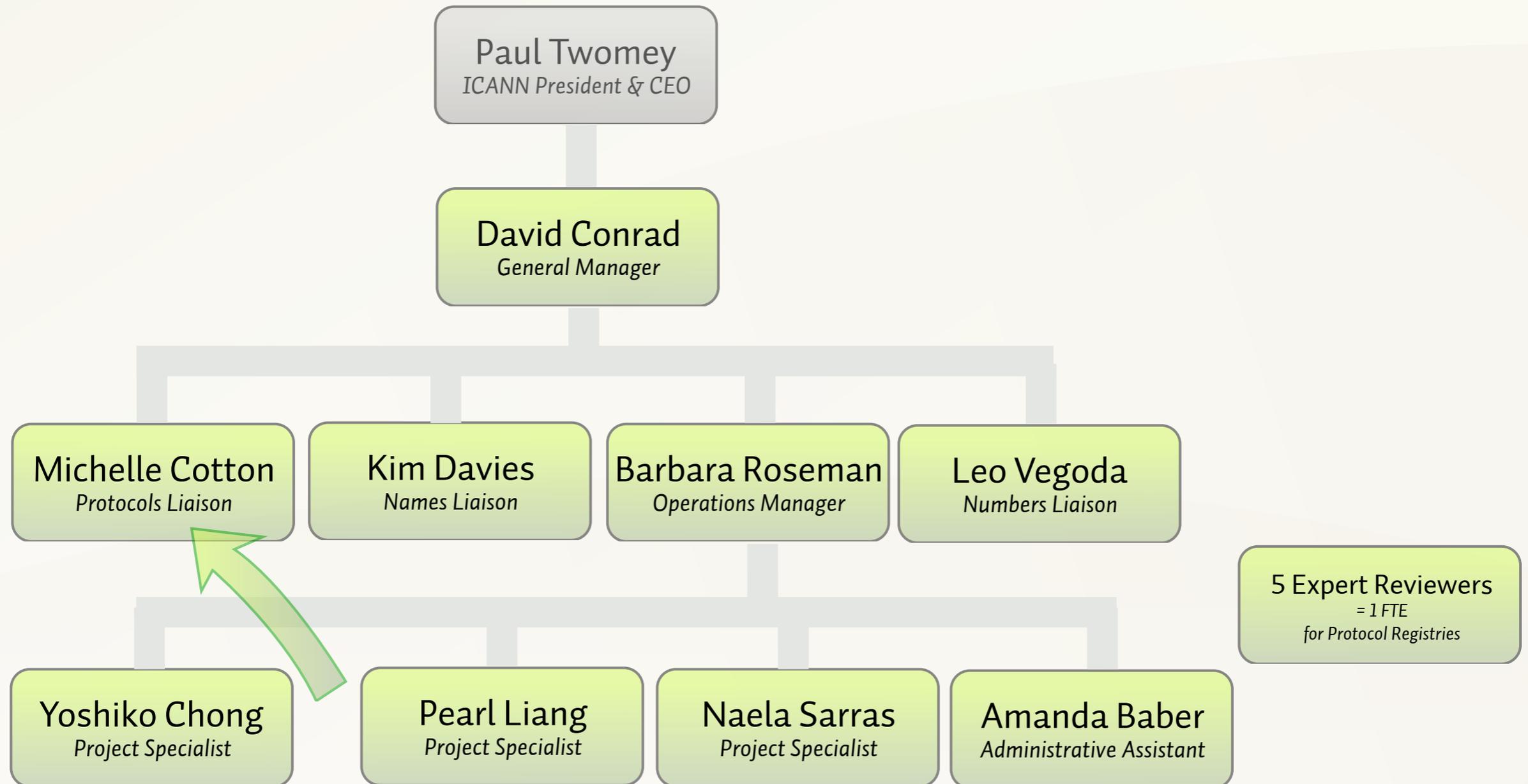
The IANA Staff

‣ Promotion of Michelle.

‣ Welcome Leo.

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

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

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.
▸ 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.
▸ RSTEP report completed - released during Eberhard's talk
  ▸ http://tinyurl.com/y48v66
▸ Non-technical issues
 ▸ Is it IPR? If there is no tech issue, still may be political one.

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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

IPv6 Global Policy

‣ Ratified by ICANN Board during September 2006.

‣ Initial allocations handed out October 1, 2006.

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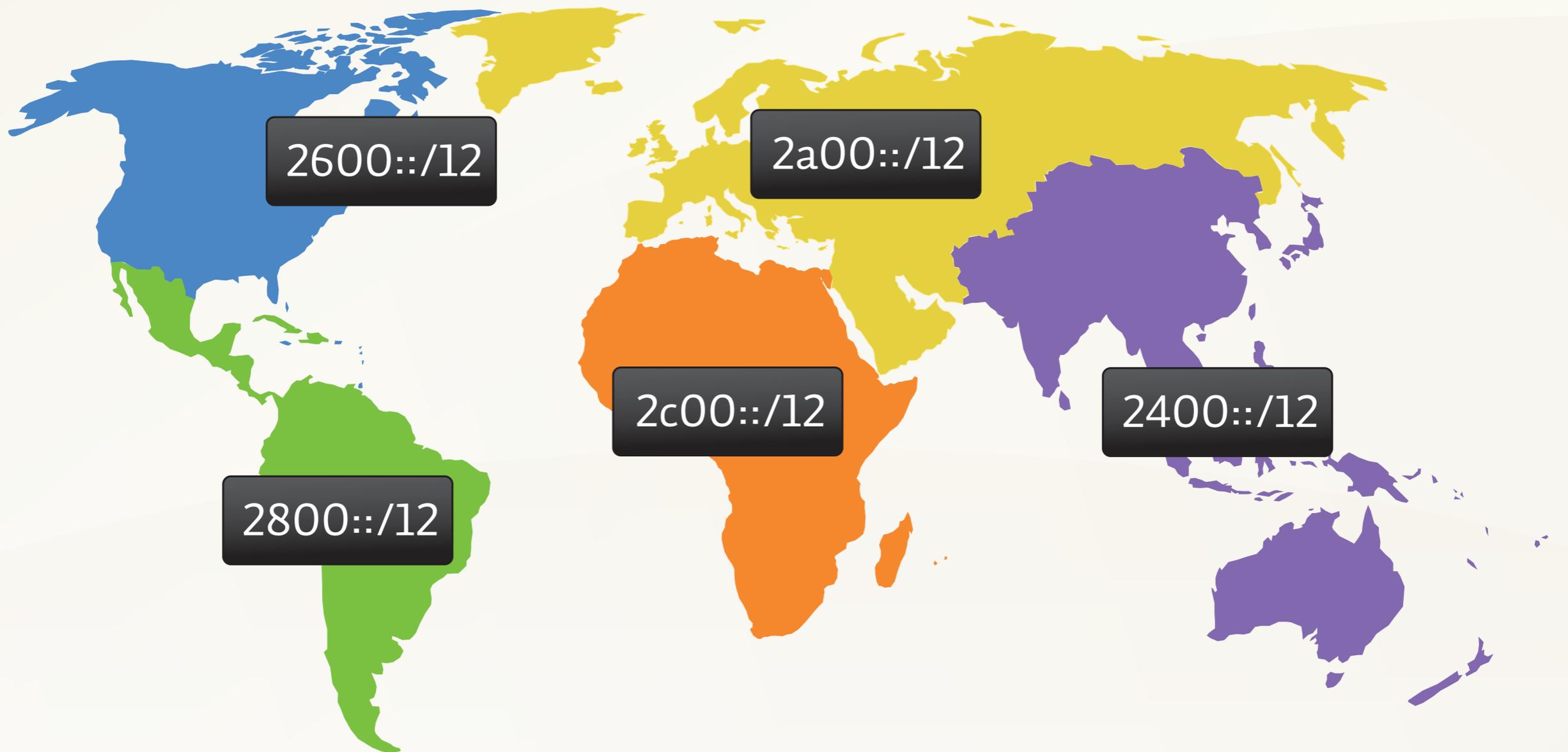
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New IPv6 allocations for RIRs

‣ 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

Thank you for your attention!

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