IANA Updates for ccTLD Managers
ICANN São Paulo, December 2006

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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
Current statistical method

- Average of duration of transactions (start to finish)

Sent to IANA

IANA completion

September 3

October 10

total time (39.8 days)
Reality is more complex

- Transactions have a variety of wait states
Statistic Granulatity

- Highlight where tickets get “stuck”
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
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
Demonstration
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
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”
24x7 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!
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](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

<table>
<thead>
<tr>
<th></th>
<th>Mandatory</th>
<th>Warning</th>
<th>VRSN Only</th>
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<tbody>
<tr>
<td><strong>Today</strong></td>
<td>IANA will refuse to implement change</td>
<td>IANA emails requestor advising of issue, allows them to proceed</td>
<td>Dialogue between VRSN, IANA and Requestor; usually proceeds</td>
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<tr>
<td>(Manual</td>
<td></td>
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<tr>
<td>processing)</td>
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<tr>
<td><strong>Goal</strong></td>
<td>Requestor can not submit request until remedied</td>
<td>Issue raised on web form. Can click “Proceed” to accept they understand consequences.</td>
<td>Such anomalies do not exist.</td>
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<tr>
<td>(Automated)</td>
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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 presentation)

- Something better is needed!
- Some suggestions: Reduce acceptance threshold, mandatory advisement period, introduce host objects.

- [http://tinyurl.com/t7965](http://tinyurl.com/t7965)
Twins born 26 September 2006

- 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?
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](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 & Caribbean - 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.
.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](http://tinyurl.com/y48v66)
- Non-technical issues
  - Is it IPR? If there is no tech issue, still may be political one.
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.
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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