IANA Update for the ccNSO

Kim Davies
Director, Technical Services
ICANN
Who are we?

Elise  
Kim  
Naela  
Michelle  
Leo  
Pearl  
Amanda  
Selina  
Paula  
Dalini  
Andres  
Punky  
Marilia
Evolving our registries

- IANA publishes almost 3,000 registries
- Primarily publication methods are web site, XML, WHOIS
Areas under consideration for all registries

- Searchability
- Filtering and sorting by different fields
- Aggregation
- Structured data
- APIs
RZDB specific ideas

Translation/transliteration of strings
Script and language of strings
Entry into service
A-labels and U-labels
Taxonomy
History
Downloadable exports
Counts
IETF reserved domains
RDAP

Chinese
- .中文网 (zhongwenwang)
- .中信 (zhongxin)
- .中国 (zhongguo)

Cyrillic
- .МОСКВА (moskva)
- .ИСПЫТАНИЕ (ispytanije)
- .Қаз (kaz)

Counts:
- 726 delegated
- 327 gTLDs
- 285 ccTLDs
- 249 latin
- 36 non-Latin
- 309 infrastructure
- 3 sponsor
- 1 special purpose
- 0 testing

Countries:
- CITEC Group Corporation
- CITIC (zhongxin)
- China Internet Network Information Center
- Foundation for Assistance for Internet...
Evolving our contact model

- Current IANA contact model dates back to the 1980s
- The Internet is a very different place today
  - Customer service contacts differ from persons of authority within TLD management
  - Needs for stronger authentication controls
- Following from our discussion in Singapore and London...
Current contact model

**Administrative Contact**
1. Listed in public WHOIS
2. Approves change requests
3. Must be in country (ccTLDs)

**Technical Contact**
1. Listed in public WHOIS
2. Approves change requests
Manage authorisers

For each domain you appoint one or more authorisers. These are contacts who are involved in reviewing changes and providing approval for those changes.

Authorisation model

- **Joint authorisation**: This model requires that all registered authorisers approve of a change for it deemed to be approved.
- **Threshold authorisation**: This model requires that the threshold of authorisers to be met. Requests will be deemed approve once the threshold of authorisers approves the change.

Approval threshold: 2

Each TLD has the option of two models, either “joint” model where all authorisers must approve, or a “threshold” model where a minimum number must approve.

Authorisers

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naela Sarras</td>
<td><a href="mailto:naela.sarras@icann.org">naela.sarras@icann.org</a></td>
<td>Delete authoriser</td>
</tr>
<tr>
<td>Elise Gerich</td>
<td><a href="mailto:elise.gerich@icann.org">elise.gerich@icann.org</a></td>
<td>Delete authoriser</td>
</tr>
<tr>
<td>Kim Davies</td>
<td><a href="mailto:kim.davies@icann.org">kim.davies@icann.org</a></td>
<td>Delete authoriser</td>
</tr>
</tbody>
</table>

A new interface is provided to add and remove authorisers for a given TLD.
A new set of information is collected for authorising contacts. This is more akin to the type of information held by a bank to establish identity. Should include things like the person's name (no role accounts), security questions, and contact methods. We will start recording cell phone numbers so we can use SMS to automatically send them password recovery codes.

A new interface is provided to add and remove authorisers for a given TLD.

Draft wireframe only
Review a pending change request

You are an authoriser for the .xyz domain. We have received the following change request for this domain that requires your review. Please review this request and respond by 18 August 2014.

Update to technical contact

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>IANA Root Management</td>
<td>IANA Root Management</td>
</tr>
<tr>
<td>ICANN</td>
<td>ICANN</td>
</tr>
<tr>
<td>4676 Admiralty Way</td>
<td>12025 Waterfront Drive</td>
</tr>
<tr>
<td>Marina del Rey CA 90292</td>
<td>Los Angeles CA 90094</td>
</tr>
<tr>
<td>USA</td>
<td>USA</td>
</tr>
</tbody>
</table>

As a representative of this domain, if you are satisfied this change request should proceed, please confirm you approve of the change. If you are not happy with this change, you may reject it. If you have noticed an error and wish to withdraw the request, you may go to your management dashboard and perform that action.

I, Kim Davies, as an authorising contact for .xyz:

- **Approve request**
  I believe the change request is correct and should proceed.

- **Reject request**
  I do not agree that this change request should proceed.

There are 3 contacts that need to approve this change request. 2 have approved this change request. We will continue processing once all 3 have approved the change request. If we do not receive all responses by 18 August 2014 we may administratively close this request.

Authorisers for this change request

<table>
<thead>
<tr>
<th>IANA Root Management</th>
<th>Proposed Technical Contact</th>
<th>Approved on 2014-08-02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elise Gerich</td>
<td>Joint Authoriser</td>
<td>Approved on 2014-08-03</td>
</tr>
<tr>
<td>Kim Davies</td>
<td>Joint Authoriser</td>
<td>Waiting for response</td>
</tr>
</tbody>
</table>

Clearer description of what is changing which presents as a visual comparison

Clear statement of what the options are and the result of those actions

Improved awareness of who needs to approve a change request and the status of approvals.

Draft wireframe only
Development road ahead

- Experiment with contact models
- Root Zone KSK Key Rollover
- Outcome of NTIA transition discussion
In closing...
How big is the job?

- **1,115** Domain-related requests
- **5** Number-related requests
- **3,871** Protocol-related requests
- **1,106** General enquiries
- **726** Top Level Domain Delegations
- **13** Number Resource Registries
- **2,800+** Protocol Parameter Registries
- **4** Key signing ceremonies
- **2** Third party audits

**Request count:** Period 30 September 2013 — 30 September 2014

**TLD count:** As at 7 October 2014

Domain related requests include processing .int, .arpa and other non-root related requests.
Performance

Comprehensive service level performance reporting at iana.org/performance
Thank you!