Update on IANA
ICANN Los Angeles, October 2007

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Internet Assigned Numbers Authority
### IDNs in the DNS Root

- **Added on 9 October 2007**
- **Applications deployed 15 October 2007 (see [http://idn.icann.org/](http://idn.icann.org/))**

<table>
<thead>
<tr>
<th>Domain</th>
<th>Domain (A-label)</th>
<th>Language</th>
<th>Script</th>
</tr>
</thead>
<tbody>
<tr>
<td>إختبار</td>
<td>XN--KGBECHTV</td>
<td>Arabic</td>
<td>Arabic</td>
</tr>
<tr>
<td>آزمایشی</td>
<td>XN--HGBK6AJ7F53BBA</td>
<td>Persian</td>
<td>Arabic</td>
</tr>
<tr>
<td>测试</td>
<td>XN--0ZWM56D</td>
<td>Chinese</td>
<td>Han (Simplified variant)</td>
</tr>
<tr>
<td>测试</td>
<td>XN--G6W251D</td>
<td>Chinese</td>
<td>Han (Traditional variant)</td>
</tr>
<tr>
<td>испытание</td>
<td>XN--80AKHBYKNJ4F</td>
<td>Russian</td>
<td>Cyrillic</td>
</tr>
<tr>
<td>परीक्षा</td>
<td>XN--11B5BS3A9AJ6G</td>
<td>Hindi</td>
<td>Devanagari (Nagari)</td>
</tr>
<tr>
<td>δοκιμή</td>
<td>XN--JXALPDLG</td>
<td>Greek, Modern (1453-)</td>
<td>Greek</td>
</tr>
<tr>
<td>테스트</td>
<td>XN--9T4B11YI5A</td>
<td>Korean</td>
<td>Hangul (Hangüll, Hangeul)</td>
</tr>
<tr>
<td>י批示</td>
<td>XN--DEBA0AD</td>
<td>Yiddish</td>
<td>Hebrew</td>
</tr>
<tr>
<td>テ스트</td>
<td>XN--ZCKZAH</td>
<td>Japanese</td>
<td>Katakana</td>
</tr>
<tr>
<td>பார்வை</td>
<td>XN--HLCJ6AYA9ESC7A</td>
<td>Tamil</td>
<td>Tamil</td>
</tr>
</tbody>
</table>
IDNs in the DNS Root
IDNs in the DNS Root

- No measurable performance impact
IDNs in the root zone

- Eleven new domains added, formally registered to IANA
- Will be used to test various aspects, withdrawn as production TLDs are introduced (no later than 2010)
- IANA is dealing with its own teething problems (upgrading our workflows, all the fun stuff.)
  - Developed a new IANA Code system
  - Suggestion on WHOIS best practice welcome
  - Would like to develop an IDN renderer
Processing trends

- Strong variance (lumpiness) caused by 11 delegations of IDNs, shared glue change, other redels
Longer term trends

- Routine requests done faster
- Remaining tickets on average taking longer
  - Redelegations etc. take more due diligence, often more contentious. Building number due to outreach efforts.
- We will study underlying causes and report back
- Propose splitting reporting into “regular” and “irregular”/“exceptional”
  - Need to define the latter — redels and third-party impacting
Service Level Targets

- Practically, IANA seems to be performing well
- Formal set of targets already enshrined in USDOC Contract
- Discussions with various communities (CENTR, APTLD, ICANN) a few months ago
- Will aim to create a “straw man” set of proposals for the communities to review
Automation Work

- Merged two development tracks into one
  - Now includes EPP to VeriSign, RT integration, support for all types of root change requests
- Focus group testing commencing (Stage 1)
  - Trying to work out confusion issues
- Once all significant bugs are addressed with open to all
- Aim to then run completely in parallel with current process for a number of months before completing project
Credential issue

- Username/password (Phase 1); PGP/RSA keys (Phase 2)

Credential distribution

- Issuing credentials to the right persons
- Revoking credentials (lost, staff move etc.)
- When to allow requests without credentials
- Credentials don’t necessarily match contacts?
  - One username per contact?
IANA signs the root zone

- IANA has been signing the root zone for a while now
  - https://ns.iana.org/dnssec/status.html
- ... however, it is not the version VeriSign publishes
- Getting signed data in the root servers is a “Layer 9 issue”
  - Politics need to be solved
- Key point: IANA should not be on the critical path for DNSSEC deployment. We intend to be production ready.
Finally...

- IANA has something cool to hand out
- Also check out the ISI poster next to the main ballroom
L-root renumbering

- l.root-servers.net operated by ICANN (not IANA)
- Renumbering on 1st November 2007
- Move to Anycast (Los Angeles, Miami - initially)
  - more global nodes
  - easily deployable local nodes
- 198.32.64.12 → 199.7.83.42
- Hints files need to be (ultimately) updated
Thank you for your attention!

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