Update for TLD managers
Nairobi, Kenya
March 2010

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Technical Conformance Update
One year later

- A year ago, we brought our minimum technical criteria for root zone changes up to date
- Started monitoring several aspects of TLD management, like IPv4 and IPv6 network diversity
- More routinely flagged such issues to TLD managers during processing
ccTLDs with AS diversity (2009)
As at 1 March 2009
ccTLDs with AS diversity (2010)
As at 1 March 2010
ccTLDs w/ AS diversity over IPv6 (2009)

As at 1 March 2009
ccTLDs w/ AS diversity over IPv6 (2010)

As at 1 March 2010
<table>
<thead>
<tr>
<th>Description</th>
<th>2009</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLDs with open recursive name servers</td>
<td>9.6%</td>
<td>10.3%</td>
</tr>
<tr>
<td>TLDs without diverse IPv4 connectivity</td>
<td>7.2%</td>
<td>6.4%</td>
</tr>
<tr>
<td>TLDs without diverse IPv6 connectivity</td>
<td>68.7%</td>
<td>65.5%</td>
</tr>
<tr>
<td>... without <em>any</em> IPv6</td>
<td>41.0%</td>
<td>34.5%</td>
</tr>
<tr>
<td>TLDs with referrals that can fragment</td>
<td>4.3%</td>
<td>8.9%</td>
</tr>
</tbody>
</table>

The bottom line
IDN ccTLD Fast Track
Update

- 19 applications received for string selection
- 4 applications received for domain delegation (IANA process)
- Confusion — some expect the delegation process is the same as string selection.
STRING EVALUATION

Sponsoring Organisation (operator)

Supporting Documentation

.String Approval

 foo is OK

Government

Delegation Evaluation

Sponsoring Organisation (operator)

Supporting Documentation

ISO 3166-1

.foo

Delegation

Root Zone Management
can we use “ελ” to represent “Greece”?  

evaluation performed by new ICANN team w/ outside experts  
  new eligibility criteria, new process (web form)  
  minimum 2 weeks  

can “.ελ” be delegated to (organisation) and be inserted in the root zone?  

evaluation performed by IANA staff w/ ICANN Board approval  
  standard delegation criteria, standard root zone process, plus Phase 1 completion  
  estimate 3+ months
Signing the Root Zone
ICANN

TLD Operator

RZM

DoC

DNS records sent from TLD operator to ICANN

Verified data sent to DoC

Authorized data sent to VeriSign

VeriSign

Singer

Signed root

Unsigned root

Root Zone distributed to root servers

CANN

KSK Management

ZSK Management

Root Servers

KSK published by ICANN

ZSK sent from VeriSign to ICANN

Keyset is signed by KSK and sent back from ICANN to VeriSign
In summary

- Progressive roll-out from January to mid-year
- Until fully deployed, in a ‘deliberately unvalidatable’ state so people don’t come to rely on it working; allows roll-back.
- No significant issues identified so far
- root-dnssec.org
Accepting DS records

- DNSSEC-signed TLD operators expects to soon be able to submit DS records for insertion into root zone.

- Similar process to ITAR, but more closely tied to existing root zone process.
WHOIS Data Accuracy
Checking the data in our WHOIS

- IANA staff rarely (never?) has reason to send physical mail to TLD managers
- How to verify if addresses are correct?
atk
Tino Vitale
Telecommunication Tokelau Corporation (Teletok)
Fenuafala
Fakaofo
Tokelau

PAS. ISRAEL
NOT ISRAEL
Thanks!

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