Update on Root Zone Management

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Root Zone was signed July 15.

First few months saw rapid adoption of signed root zone, quickly surpassed ITAR usage.

In October, ITAR retirement announced. All listings removed 18 November 2010.

On 30 November 2010, the root zone had 60 signed TLDs.
Adoption of ITAR and signed root

Signed ccTLDs
IANA Process

- DS records treated similarly to NS records.
- ccTLD managers request DS records to be added or removed using regular template and root zone change process.
- ICANN checks if matching DNSKEY record exists in TLD zone. If not found, consult with TLD manager.
  - Usually an error, but could be by design depending on TLD.
Things we’ve learned

- Current agreed technical checks may miss some DNSSEC configuration issues. For example, if there is a configuration incompatible with DNSSEC on a single name server, the current technical checks will not identify the misconfiguration.

- As we’ve done in the past, we will open conversations with the community to evaluate the appropriate technical checks for DS records.
EVERYTHING WENT BETTER THAN EXPECTED
Workflow Automation
Workflow Automation

- Project to automate the workflow of routine root change tickets is dangerously close now!!!!!!

- Does not change the process, but rather than being tracked manually, workflow state is maintained online.

- Adds the ability for TLD managers to submit change requests using web interface, while keeping current system operational (i.e., text template submitted via email).

- ICANN will communicate with VeriSign using EPP, rather than current manual process.
Workflow Automation

- During ICANN Sydney meeting, we commenced “parallel” deployment, but ran into a mission critical issue that stopped process.

- DNSSEC became a higher priority in 2009, and work on automation became a lower priority until the root was signed in July 2010.

- New system now supports DNSSEC and........
Parallel Testing Underway

- We have been running requests in the test environment parallel to the production system for many months and have gained confidence in the automated system.

- A formal period of parallel operations is now ongoing to qualify the system for final deployment.

- Production deployment dependent on 60 days of 100% consistency between the parallel systems.

- With successful completion of parallel testing, we’ll inform the community of deployment.
After Deployment - next steps

- Work on credential distribution for new web interface.
- Provide education on how the system works.
- Gather user feedback for v2.
IDN ccTLDs
Countries with IDN ccTLDs

- 15 TLDs representing 12 countries

Sunday, December 5, 2010
IDN ccTLDs

- Staff continue to process delegation requests for IDN ccTLDs.
- Rate of applications seems to be slowing.
- Board has asked the Board IANA committee to refine the process to address a number of concerns. IANA committee is working on process improvement recommendations.
What we’ve learned

・ Applicants confuse criteria for IANA delegation process with fast track string evaluation.

・ Both processes have government and local community support requirements. The criteria for string evaluation and the IANA process are different.

・ We have enhanced our upfront communication to better define the differences between the criteria.

・ Fast Track process has highlighted the need to better document the IANA delegation process.
Root Documentation
Root documentation

- Initial drafts of improved root zone documentation shared with ccNSO Redelegation WG in late-2009 for informational purposes.

- Initial drafts have undergone several iterations of review and revisions.

- Expect to share final draft of “Guide to delegating/redelegating country-code top-level domains” with ccNSO for informational purposes prior to publication.

Sunday, December 5, 2010
Workload
Total Root Change Requests (Jan-Nov 2009): 265
Total Root Change Requests (Jan-Nov 2009): 265
Total Root Change Requests (Jan-Nov 2010): 370
(40% increase)
Gracias
Thanks
 شكرا
Спасибо