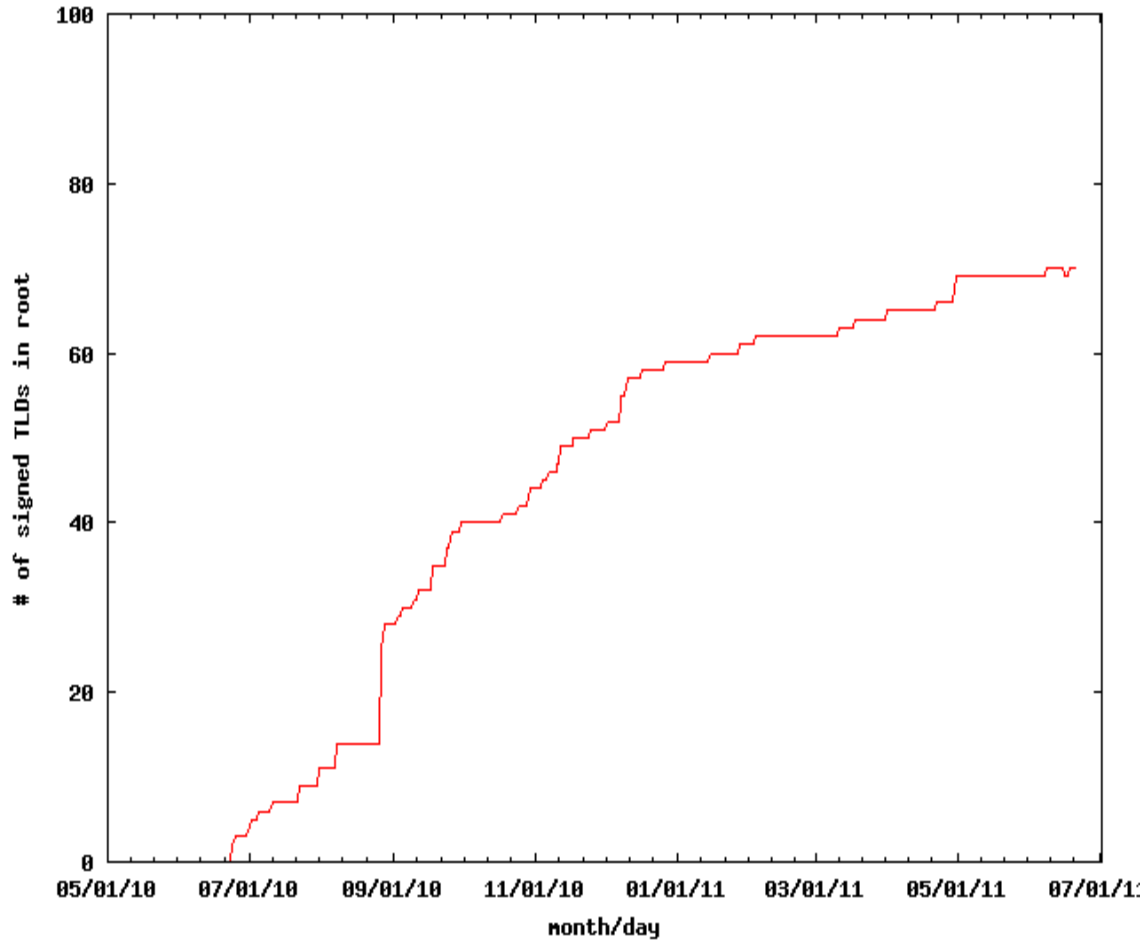# DNSSEC Deployment Update

ccNSO Meeting, 21 June 2011

Singapore
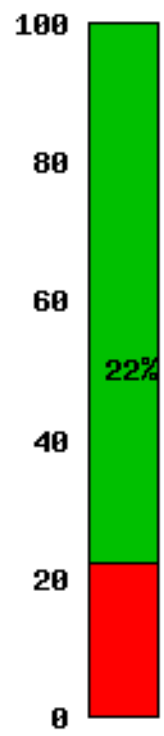
richard.lamb@icann.org
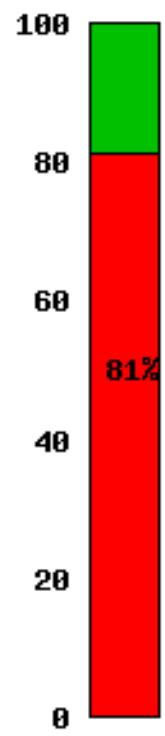
Total TLDs: 310 / Signed TLDs in root: 70

Trend

% of TLDs signed in root

% potential DNSSEC deployment weighted by total domains per signed TLD

DNSSEC ccTLD Deployment Initiative

- PCH DNSSEC signer platform is ready
  - Free for any ccTLD
  - No lock in
  - Based on root processes and architecture
  - Singapore-San Jose-Zurich
  - Had KC #3 here in Singapore just yesterday with external witnesses and notarized by independent 3rd party
  - Status: 14 ccTLDs signed up
- Education, Training and Awareness
  - Lesson: Transparent Processes are good for everyone
  - Automate Automate Automate…

Root
https://www.iana.org/dnssec

- 5 Key Ceremonies with invaluable dedication* of trusted community representatives (TCRs). Without such support from the community, we would be nothing!

- First DNSSEC deployment with Int'l SysTrust certification by independent 3rd party auditor

[*thoughts from one TCR]
http://www.iis.se/en/blogg/femte-nyckelceremonin-genomford

KC #5 9 May 2011 Culpepper, Virginia

KC #5 9 May 2011 Culpepper, Virginia

DNSSEC SysTrust Certification

ICANN is committed to ensuring the security and stability of the Internet's unique identifier systems. As the DNSSEC Root Zone Key Signing Key (RZ KSK) manager, we are pleased to announce that ICANN's RZ KSK System has achieved SysTrust certification — an audit by the international accounting firm, PricewaterhouseCoopers, LLP (PwC) to ensure we have appropriate internal controls in place to meet the availability, processing integrity and security objectives for our RZ KSK System.

The Trust Services Principles and Criteria is an international set of principles and criteria developed and managed jointly by the American Institute of Certified Public Accountants (AICPA) and the Canadian Institute of Chartered Accountants (CICA). The SysTrust examination is a rigorous process developed by the AICPA and CICA to provide independent assurance that an organization's systems are reliable. Our SysTrust certification focuses on the following Trust Services principles:

- Availability — the system was available for operation and use, as committed or agreed
- Processing Integrity — the system processing was complete, accurate, timely, and authorized
- Security — the system was protected against unauthorized access

Each principle is supported by well-defined and detailed criteria that encompass a company's infrastructure, software, data, people, and procedures.

ICANN engaged PwC to perform the SysTrust audit, which covered the period of 15 June 2010 through 30 November 2010. PwC evaluated the IT operational practices and controls around the ICANN RZ KSK System and awarded ICANN with an unqualified opinion. ICANN will renew this certification annually.

Forward

- Need greater Registry / Registrar acceptance
- Application development (SSL = killer app?)
- Greater Awareness to a wider IT populous
- How can we help?
- Suggestions?