

ICANN

DNS Root Scaling Study

SSAC

Security and Stability Advisory Committee

RSSAC

Root Server System Advisory Committee

Root Zone Expansion

- New resource records for DNSSEC
 - <http://www.dnssec-deployment.org>
- Internationalized Domain Names for ccTLDs
 - <http://www.icann.org/en/topics/idn>
- New address records and glue for IPv6
 - <http://www.root-servers.org>
- New gTLDs
 - <http://www.icann.org/en/topics/new-gtld-program.htm>

How will root zone expansion affect the operation of the root server system?

- Model-based analysis of root zone scaling issues
 - Compile a description of the complete root server system
 - Provisioning side (update) and query side (lookup)
 - Technical infrastructure and operational procedures
 - Model the relationships among different parts of the system
 - How does changing something in one part affect each other part?
 - Goal is quantitative model (as timeframe of study allows)
- Factual/analytical tool for resolving concerns about root server system security and stability as the root grows

Root Scaling Study

- Requested by ICANN Board
 - <http://www.icann.org/en/minutes/prelim-report-03feb09.htm>
- Sponsored by SSAC and RSSAC
 - Terms of Reference
 - https://st.icann.org/new-gtld-overarching-issues/index.cgi?new_gtld_overarching_issues
- Study team assembled early May 2009
 - Lyman Chapin (lead)
 - Jaap Akkerhuis, Glenn Kowack, Patrik Fältström, Lars-Johan Liman, Bill Manning
- Draft report due 31 August 2009
 - public review and comment prior to ICANN annual meeting in late October 2009

root-scaling@icann.org