

CONTRACTOR'S QUARTERLY PROGRESS, STATUS AND MANAGEMENT REPORT
1 April 2013 – 30 June 2013

DOMAIN NAME SYSTEM SECURITY (DNSSEC)
DEPLOYMENT COORDINATION

Contract No: FA 8750-10-C-0020

Data Item A001, CLIN 0002

Submitted by:

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Progress Against Planned Objectives (3.1.1)

- Refined Measurement of DNSSEC uptake
- Published Internet Draft on Algorithm Signaling, awaiting final review to be published as an RFC.
- Continued work with ISOCs Deploy360 program, focusing on DNSSEC.
- Continued working with Deploy 360 on a Deployment Guide, and a “Why you should deploy DNSSEC in 2013” document.

Technical Accomplishments This Period (3.1.2)

1. Last quarter, developed software for the FCC CSRIC Working Group 5 report to scan the entire IPV4 Internet space looking for and characterizing open resolvers. This quarter, did extensive analysis of our data from the Open Resolver survey, gave a presentation on that in DNS OARC Meeting in Dublin slides: <https://indico.dns-oarc.net/indico/contributionDisplay.py?contribId=17&sessionId=0&confId=0>
2. Updated DNSSEC Resolver Check (reported last quarter) to address a bug.
3. Updated the IETF Internet Draft Memo, concerning Automating DNSSEC Delegation Trust Maintenance. This document describes a method to allow DNS operators to more easily update DNSSEC Key Signing Keys using DNS as communication channel: <http://tools.ietf.org/html/draft-kumari-ogud-dnsop-cds>
4. Proposed a language for specifying DANE-like extensions to general protocols <http://tools.ietf.org/html/draft-ogud-dane-vocabulary-00>
5. Created a DNSSEC algorithm testing infrastructure to evaluate if validators support DS+DNSKEY combinations.
6. Refined process for automatically publishing maps and charts of latest DNSSEC Deployment activity at the ccTLD level. Maps are automatically distributed weekly to all DNSSEC Deployment team members to use in presentations.

Improvements to Prototypes This Period (3.1.3)

None this period

Deliverables This Period (3.1.5)

(See Technical accomplishments, above)

Publications This Period (3.1.7)

See above.

Meetings and Presentations This Period (3.1.8)

- DNSSEC Deployment Coordination Meetings were held at Shinkuro's offices on April 22, May 22, and June 18.
- Steve Crocker attended the ICANN Meeting in Beijing April 4 – April 11 and discussed DNSSEC Deployment.
- Olafur Gudmundsson attended the OARC meeting in Dublin, Ireland, May 12 – 13, and gave a presentation on DNSSEC.
- Steve Crocker traveled to Bangkok to attend the 25th anniversary of the Thai ccTLD operation. .TH was the first TLD in Asia to implement DNSSEC. Also, coinciding with this anniversary, there was a DNSSEC training workshop. Dr. Crocker gave an opening talk and signed certificates of appreciation for about twenty or so participants.

Issues or Concerns (3.1.9)

None at this time.

Planned Activities (3.2.1), Information Covering the Next Three Months

- Steve Crocker to attend ICANN meeting, Durban, South Africa, July 14 - 18
- Coordination meetings are scheduled for August 8 and September 10.
- Meetings with DHS to discuss DNSSEC goals and strategy on June 13, June 28, and July 8.
- Olafur Gudmundsson to attend the IETF meetings in Berlin, Germany, July 28 – August 2, and give a presentation on DNSSEC.