

CONTRACTOR'S QUARTERLY PROGRESS, STATUS AND MANAGEMENT REPORT
1 January 2013 – 31 March 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)

- Steve Crocker wrapped up work on FCC working group and presented the phase 2 report
- Roadmap completed.
- 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.
- Surveyed all ccTLDs concerning their DNSSEC Status and made over 200 updates to our database of DNSSEC deployment. We are now generating the most accurate and useful maps to date and our maps are being co-published on the Deploy360 website.

Technical Accomplishments This Period (3.1.2)

1. Developed software for the FCC CSRIC Working Group 5 report to scan the entire IPV4 Internet space looking for and characterizing open resolvers. Developed the scanning software and reporting software capable of running a full Internet scan and report in approximately 24 hours. Results documented in the CSRIC WG5 report.
2. Published code in a code repository on github (<http://github.com/ogud/DNSSEC-resolver-Check>) for a DNSSEC Resolver Check application (short requirements document attached) to support two modes of operation:
 - a. DNSSEC Resolver Check php web site that runs a java applet in a client browser and delivers results to the user as html via javascript
 - b. DRC_App.jsp that installs a DNSSEC Resolver Check Java Application on a user’s computerThese applications check the user’s local resolvers for DNSSEC conformance and reports results both to the user and to a collection system at Shinkuro.

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)

None this period

Meetings and Presentations This Period (3.1.8)

- DNSSEC Deployment Coordination Meetings were held at Shinkuro’s offices on January 15th, February 12th, and March 19th.

- Steve Crocker Attended the ICANN Expert Working group on gTLD in Los Angeles, CA February 25 - 27
- Steve Crocker attended the MIGF Meeting in Dubai, March 4 - 5
- Olafur Gudmundsson attended the IETF Meeting, Orlando, FL March 10 - 15
- Steve Crocker attended the ICANN Expert Working Group Europe Meeting, London, March 20 - 22

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, Beijing, PRC, April 4 - 11
- Coordination meetings are scheduled for April 22, May 21, June 18 at Shinkuro.
- Publication of a specification for signaling the algorithms understood by a resolver.
- Creation of software for auto-reconciliation of TLD Deployment Database and field observations of status. Also an auto-alert that signing targets have not been met.