CONTRACTOR'S QUARTERLY PROGRESS, STATUS AND MANAGEMENT REPORT
1 April 2012 - 30 June 2012

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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July 2012

Progress Against Planned Objectives (3.1.1)

- Presented all day workshop and booth at FOSE 2012 Conference and Exposition April 3-5, 2012
- Steve Crocker continued work as Chairman of an FCC Working Group on DNSSEC Deployment
    - Work on phase 2 began in Q2
- Continued work on new Roadmap, completed final draft and sent out to 51 stakeholders for review. Creation of final document in July 2012
- Updated maps on the deployment of DNSSEC in ccTLDs, completed update of database and map generation system.

Technical Accomplishments This Period (3.1.2)

1. Created Optware distributions for the unbound recursive validating DNS resolver, the ldns DNS library and the dnssec-trigger project and submitted the code to Optware, a linux distribution channel. This code is available from the subversion source code repository at http://svn.nslu-linux.org/svnroot/optware.

2. From this open source Optware distribution, created a dd-wrt router firmware load for the WNR3500/U/L router that includes a DNSSEC validating recursive resolver with automatic configuration. A zip archive of the code repository to do this is attached. The file "routers\WNR3500v2-U-L\copy-bits-to-firmware.sh" in the attached archive has instructions for its use. Plan to put this firmware on myopenrouters.com.

3. Completed write up of the DNSSEC in routers work done on the Buffalo Router (attached).

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 April 9, May 1, and June 4.
- Steve Crocker gave a presentation about DNSSEC and enabling validation at the Nanog Conference in Vancouver, BC on June 3.
- Steve Crocker and Olafur Gudmundsson attended the ICANN Meeting in Prague, Czech Republic, June 24 - 29. There was an extensive DNSSEC session. Olafur Gudmundsson gave the presentation "DNSSEC w/o Humans" (attached). The DNSSEC meetings included a Beginners Tutorial, a DNSSEC working lunch, and an off-site meeting for DNSSEC implementers to share their experiences and tips (agenda attached).

Issues or Concerns (3.1.9)

None at this time.

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

- Coordination meetings are scheduled for July 10, August 7, and September 4 at Shinkuro.
- Olafur Gudmundsson will attend the IETF Meeting in Vancouver, BC July 29 – August 3.
- Draft Roadmap delivered and circulated for review.

Attachments (4) (Files are too large to email, but can be downloaded from this address: (http://www.shinkuro.com/special/FA8750-10-C-0200-2012-Q2/)

- Zip archive of the code repository for dd-wrt router firmware load for the WNR3500/U/L router that includes a DNSSEC validating recursive resolver with automatic configuration.
- PDF presentation, "DNSSEC w/o Humans".
- Write up of work on "Validating Recursive Resolver Appliance".
- Agenda for DNSSEC Workshop at ICANN Meetings in Prague