COMMERCE SPECTRUM MANAGEMENT ADVISORY COMMITTEE

DRAFT STATEMENT OF WORK FOR NEW SHARING SUBCOMMITTEE

MAY 19, 2010

1) **Background and Area of Work**

We are nearing completion of four Commerce Spectrum Management Advisory Committee ("CSMAC") Subcommittee Reports. These Reports are to be reviewed and adopted by the full CSMAC. Much good work has been done by the following Subcommittees:

1. Spectrum Inventory Subcommittee,
2. Transparency Subcommittee,
3. Adjacent Band/Dynamic Spectrum Access Subcommittee, and
4. Incentives Subcommittee.

These four reports were discussed and debated at the March 4, 2010 CSMAC meeting. Further work has been done and revised versions of the reports will be presented at the May 19, 2010 meeting. On March 4, Co-Chairs Hatfield and Tramont raised the question of additional work that would be a "logical outgrowth" of the four efforts already undertaken and would be helpful to the NITA and to the Administration given the CSMAC's mandate and scope of work. The two primary topics identified were "Unlicensed" and "Spectrum Sharing." This Paper presents for discussion and review a preliminary "Statement of Work" for a Spectrum Sharing Subcommittee.

It is important to recognize that the Committee is not writing on a blank slate. The first meeting of the CSMAC was held on December 13, 2006. Soon thereafter, in a memorandum dated January 15, 2007, Dale Hatfield identified two initial subcommittees, one of which, the Operational Efficiency Subcommittee, was to focus on identifying and analyzing efforts to increase advantageous spectrum sharing. The results of this initial round of work were discussed in the December 13, 2008 CSMAC Transition Report. The Transition Report and the related work product should be reviewed in connection with the new work effort.

2) **Tasks to be Accomplished**

Task 2.1 – Define a taxonomy of spectrum sharing and potential sharing methods

It is critical to have a common understanding of what is meant by spectrum sharing and what options may be available. This should be as comprehensive as possible, including various technical approaches for in-band and out-of-band sharing in the same and adjacent geographic areas and in the time domain; methods for analyzing and modeling potential interference to facilitate coordination; organizational approaches to managing sharing, such as the use of band

managers; and legal and economic models for facilitating sharing. The focus should be both on sharing between governmental agencies and between federal government agencies and commercial entities.

Task 2.2 – Identify and analyze existing sharing arrangements

There are many existing spectrum sharing arrangements that should be studied. Cataloging and analyzing their strengths and weaknesses, including the incentives that may have led the parties to agree, will provide useful lessons.   Variations include, but are not limited to:
- Sharing between government agencies
- Sharing between government agencies and commercial entities
- Sharing between commercial and public safety entities.

Task 2.3 – Develop criteria and recommendations for increasing sharing

The work on Tasks 2.1 and 2.2 will help the Subcommittee reach useful conclusions regarding best practices, action items and specific recommendations to continue to improve opportunities for spectrum sharing.

3) **Potential Committee Structure**

Subcommittee Chairperson: TBD
Subcommittee members: TBD

4) **Process and Schedule**

Process
1. Review previous CSMAC efforts
2. Review academic, GAO and other literature
3. Interview experts
    a. Government
    b. Academic
    c. Operators

Schedule
1. Finalize Work Plan: May 2010
2. Draft Report: August 2010
3. Final Report: September 2010