CSMAC
Subcommittee 2
Non-Federal Current and Future Spectrum Requirements

April 22, 2020

Committee Members

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- Michael Calabrese

- Ruth Pritchard-Kelly

- Steve Sharkey

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- Mariam Sorond

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Question

- Explore the feasibility and utility of requesting information about future spectrum requirements and current usage from industry and other non-federal users and, considering that, identify what information is already available (including prior CSMAC reports and recommendations) and recommend possible approaches to obtaining future spectrum requirements and current spectrum usage of non-federal users.

Tasks

1. Explore the feasibility and utility of requesting information about current usage and future spectrum requirements* from industry and other non-federal users.

2. Considering that, identify what information is already available (including prior CSMAC reports and recommendations).

3. Recommend possible approaches to obtaining future spectrum requirements and current spectrum usage of non-federal users.

*Reordered from original question to put current use ahead of future requirements

Additional Information Provided by NTIA

- To see what information might be available to facilitate compatibility analyses that NTIA does to consider sharing between federal and non-federal systems
- To anticipate non-government (industry) needs that might involve use of or sharing in Federal spectrum
- To use as a comparison with the data NTIA is collecting about Federal agency use and expected requirements to see if Federal agencies may be missing out on opportunities identified by the commercial sector, and
- To allow comparison between Federal and industry use trends.
- Looking for description of what needs to be done to collect data and describe limitations
- Categories of data (*e.g.*, geographic, temporal, frequency, etc.)
  - What elements are needed to support greater sharing?

Additional Questions and Considerations

- What data is needed?
- How will it be used?
- What are the limitations to data availability (costs, form, etc.) ?
- Consider data and information on new technology implications and advances
- Does NTIA have authority to gather some of this data?
- Data on some commercial operations may be difficult to obtain due to the commercial sensitivity of this information
  - May require additional efforts to procure (e.g., NDA)
- Considering the diversity of data sources and complexities of acquisition and analysis, NTIA may wish to consider outsourcing
  - May need to constrain tasks
  - Drive testing, sampling, …?
  - Practicality?
- Consider implications of SC #1 recommendation on Spectrum Research Agency R&D element

Current Work Plan

- Identify commercial services for study
  - Using FCC rule parts/services as template

- Categorize spectrum need by service as
  - Growing
  - Stable
  - Declining

- Identify whether data are available

- Identify possible data sources
  - Current usage
  - Future usage

- Recommendations

Schedule

- Monthly Subcommittee calls
  - Meetings to date: Oct 11 / Oct 25 / Dec 13 / Jan 10 / Feb 26 / Mar 18 / Apr 13
  - Future Meetings: May 8 / Jun 12 / Jul 10
- Briefings at quarterly CSMAC meetings
- Draft Recommendations by Aug 2020
  - Initial Report by July 2020