

SAS/Spectrum Database International Extension

Subcommittee Briefing

CSMAC Meeting

March 18, 2015

SAS/Spectrum Database International Extension

Co-chairs:

- Jeff Reed
- Kurt Schaubach

NTIA Liaison:

- Jonathan Moak

Members:

- Mark McHenry
- Janice Obuchowski
- Rick Reaser
- Steve Sharkey
- Jennifer Warren

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Study Question:

Can evolving database and sensing approaches adopted in the U.S. to facilitate a more dynamic spectrum sharing environment be effectively extended to international spectrum management applications? If so, how?

Rephrasing of the Study Question by the Subcommittee:

What are the challenges in using database and sensing approaches for international spectrum management, and how can NTIA help address these challenges?

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Progress to date:

- Several subcommittee telecoms since December
- Interviews conducted with:

Fred Moorefield & Bob Schneider

Office of the Department of Defense Chief Information Officer

Mike Mearns

NSWC Dahlgren

- Preliminary recommendations drafted for further consideration and study by the subcommittee

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Preliminary recommendations for further subcommittee study

- NTIA should establish spectrum priorities for collaborative dynamic sharing internationally – what are the systems that would be good to share and share sooner than later
 - Example 3.4 GHz to 3.8 GHz for sharing internationally
- NTIA should study and develop (guide) policies on
 - Privacy and security for international sharing by federal users
 - Methods or mechanisms by which spectrum sharing capability could be provided directly to another countries to facilitate sharing
 - Export of spectrum sharing technology -- Red Book changes?

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Preliminary recommendations for further subcommittee study (cont'd)

- NTIA should expand efforts to engaged internationally to best represent US interests
 - Educational mission and socialization on spectrum sharing benefits with international community
 - Peer-to-peer discussions with international counterparts
 - Participate actively in standards bodies, e.g., IEEE, ETSI, WINNF that are focused on shared spectrum
 - Expand the role and involvement of ITS and CAC in this regard
 - Set benchmarks by example
 - Federal sharing across borders

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Preliminary recommendations for further subcommittee study (cont'd)

- NTIA should develop a policy to facilitate the disclosure waveforms and waveform parameters to facilitate spectrum sharing
- NTIA should become more cognizant of shared spectrum R&D programs and work to disseminate information to government and the international community
 - Host workshops
 - Notices of inquiry for technology including demonstration of technologies
 - Assist DARPA and other organizations with transition such as SSPARC and NSC programs for example

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Work plan through August:

- Conduct additional interviews
 - CEPT Reconfigurable Radio Systems (RRS) and Licensed Shared Access (LSA) representatives
 - Group of US Navy Spectrum Managers (as organized by Mike Mearns at NSWC)
- Further study and refinement of draft recommendations (with potential additions and deletions)
- Final recommendations and report