Submission Title: Status report of meeting with passive sciences CORF committee
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Re: general Contribution

Abstract: This presentation is to discuss a recent meeting the author had with representatives of the passive services /science community CORF organization in DC at the FCC, along with Mike Marcus former FCC chief technology officer, in opening up spectrum above 100GHz for device allocations, spectrum coexistence and formation of a active and passive services technology collaboration

Purpose: Support material for 802.15 THz Interest Groups focus and activities

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Conference On Radio Frequencies
CORF – National Academies

May 17, 2012 Meeting

Radio Astronomy
EESS  Remote Sensing
AT&T Labs Research
Marcus Spectrum Solutions LLC

CORF represents the interests of U.S. scientists who use radio frequencies for research—for example, radio astronomers and remote sensing researchers. The committee deals with radio-frequency requirements and interference protection primarily through filing comments under the aegis of the National Academy of Sciences in public proceedings of the Federal Communications Commission. The committee acts as a channel for representing the interests of U.S. scientists in the work of the Scientific Committee on Frequency Allocations For Radio Astronomy and Space Science (IUCAF) of the International Council for Science and in working groups of the Radio communication Sector of the International Telecommunication Union (ITU).
Committee on Radio Frequencies

CORF represents the interests of U.S. scientists who use radio frequencies for research—for example, radio astronomers and remote sensing researchers. The committee's work taps into many different aspects of science.

Upcoming Meetings
- October 12-13, 2012
- Beckman Center
- Irvine, CA

Past Meetings
- May 17-18, 2011
- Beckman Center of the National Academies
- Washington, DC

Support & Collaboration
- The National Academies" C"urrent Projects & Programs
- Project Information
- Past Meetings
- Current Projects & Programs
- Global Radio Astronomy Observatories
- Support & Collaboration

Committee on Radio Frequencies

Thursday, May 17, 2012

10:30 a.m.: Welcome and Introduction
11:00 a.m.: Current and Future Directions in RSF
12:00 p.m.: Break
2:00 p.m.: Overview of Global Radio Astronomy
3:00 p.m.: Roundtable Discussion on Amateur Radio

D. Britz, AT&T Shannon Labs
Modified AT&T CORF
May 17th Presentation

One last thought!
The emergence of Small cells and eventually Nanocells may represent one of the last opportunities to get it right!
By designing in, at the beginning, the critical active and passive spectrum coexistence and sharing solutions.

Let's use this new network topography opportunity to work together to find solutions that work for all.
Bottom line...... *neither side is going away!* So we had better figure out, as a community of common interest, how to work together and coexist in this spectrum space, because the challenges and demand for spectrum will only get worse with time.

**CORF Meeting....... Objectives?**

- To open a discussion between Active and Passive services
- To identify participants and a forum for meetings and discussion
- To initiate and create a means for open dialogue between these two interest groups
- To establish a technical collaboration to define a means for spectrum coexistence at mmWave and THz frequencies
- To identify a means to demonstrate proof of concept for active and passive spectrum coexistence

**Possible venues;**
- Informal conference call/email dialogue
- 802.15 THz IG meetings Interest group committee
- IWPC MoGIG Spectrum committee
- Other
The *good* news

Both sides of this spectrum issues seem now to recognize the right for the others existence, and viability. Increasingly both sides now realize the need for dialogue and proactive means to identify and define structural, network, standards and technical solutions to support spectrum coexistence.

The *bad* news

No current mechanism exists that supports collaboration between active and passive service interests in the 100-600GHz domain. Little means for cooperation has been defined. *But* time and the world is not going waiting for us!

- How do we get started, what is the agenda and means to exchange ideas?
- What is the time line, how do we share costs and responsibilities?
- When can we be ready to demonstrate some solutions?
- Whose responsible, whose in charge?

**Status**

To date two individuals, representing the CORF organization, have indicated their interest in participating in a joint collaboration with “active services” community with the goal of identifying means for spectrum coexistence.

*Now we need to respond to this offer - to move forward!*