Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)

Submission Title: Recent Developments on Spectrum Issues

Date Submitted: 15 July 2013

Source: Thomas Kürner Company TU Braunschweig

Address Schleinitzstr. 22, D-38092 Braunschweig, Germany

Voice:+495313912416, FAX: +495313915192, E-Mail: t.kuerner@tu-bs.de

Re: n/a

Abstract: This document provides information on the briefing of TAC Spectrum Frontiers Working Group at FCCon the THz IG's activities and informs about IEEE-USA Petition towards FCC for Spectrum Ruling to Spur New Technologies

Purpose: Information of 802.15 IG THz

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Recent Developments on Spectrum Issues

Thomas Kürner

TU Braunschweig Chair IEEE 802.15 IG THz

Communications towards FCC

- In July 2013 two communications towards
 FCC with relevance to the IG THz took place
 - Briefing of TAC Spectrum Frontiers Working
 Group on the IG's activities by Bob Heile and
 Thomas Kürner during a teleconference on July 8,
 2013
 - IEEE-USA Petition towards FCC for Spectrum Ruling to Spur New Technologies
 - In this document results and action items with respect to the THz IG are presented

Briefing of TAC Spectrum Frontiers Working Group (1/2)

- In their feedback the following issues have been mentioned
 - Buffering and I/O of 100 Gbit/s is seen as a big challenge
 - Will the eco system created by wireless data centers be sufficient?
 - Backhauling for small cells in cellular networks may create a larger eco system

Briefing of TAC Spectrum Frontiers Working Group (2/2)

- Further discussions on
 - Mechanical/electrical beamforming
 - Ongoing actions at ITU level

IEEE-USA Petitions FCC for Spectrum Ruling to Spur New Technologies (1/2)

 IEEE-USA, in a petition filed on July 1st, 2013 with Federal Communications Commission is asking the federal government to classify frequency spectrum above 95 GHz "a new technology or service":

http://www.ieeeusa.org/policy/documents/FCCPetition_nJuly2013.pdf

 An early draft of this petition discussed at 802.18 mentions the activities of the 802.15 IG THz:

https://mentor.ieee.org/802.18/dcn/13/18-13-0055-01-0000-above-95ghz-petition.doc

IEEE-USA Petitions FCC for Spectrum Ruling to Spur New Technologies (2/2)

- In the final version IEEE 802's activities are not mentioned anymore.
- Proposal to write a letter to FCC supporting IEEE-USA petition
- A first draft is available in doc. 13/0410
- Proposed procedure:
 - Discuss/modify current draft
 - Seek approval at 802.15 Midweek Plenary
 - Feed the document into 802.18 immediately after the Midweek Plenary