

802.19 Coexistence TAG Liaison Report to IEEE 802.16 Closing Plenary Session #56

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Purpose:

802.19 Coexistence Technical Advisory Group Liaison Report to IEEE802.16 Closing Plenary Session #56 July 2008, Denver Co.

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Overview

- Recent activities in 802.19
- Activities this week related to 802.16
- Detail of work items

*Liaison report approved in 802.19 Coexistence TAG
Wednesday 16 July 2008*

Recent Activities in 802.19

| | |
|---|---|
| 802.16h Coexistence Assurance Document | 802.16h plans to operate in the 3.65 GHz band, along with 802.11y. The TAG has been facilitating development of Simulation Parameters and Coexistence Metrics documents. Plan to review simulation results this week. |
| Coexistence in 60GHz with Satellites | The TAG held a series of conference calls with members of 802 and members of the Passive Earth Satellite Sensing industry, to determine if 802 wireless devices posed a threat to satellite sensing. The conclusion was there is not a problem. |
| 40 MHz 802.11n | Recently concerns about coexistence of the 40 MHz version of 802.11n and both 802.15.1 and 802.15.4 has been raised. Held conference calls and meeting this week in person. Developing simulation parameters, a plan to review simulation results, and a test document. |
| Co-located Coexistence | The 802.16 WG sent a liaison letter to 802.11/15/19 concerning co-located (in the same device) coexistence issues. The TAG established an email list. Meeting this week to discuss further. |
| Draft | TAG is developing a Recommended Practice on methods of evaluation coexistence. Draft being prepared for letter ballot later this year. |

Source document title: *Wireless Coexistence TAG Overview* (IEEE 802.19-08/20)

<https://mentor.ieee.org/802.19/file/08/19-08-0020-02-0000-tag-overview.ppt>

Activities this week concerning 802.16 WG

- 802.19 met this week for 8 hours:
 - Tuesday PM
 - Wednesday PM
- 802.19 is facilitating discussion of coexistence on a number of issues related to 802.16 WG:
 - 3.65-3.7GHz band coexistence
 - Co-located coexistence in a device
- 3.65-3.7GHz band coexistence is relevant to 802.16 WG given the work being undertaken in the LE TG (License-Exempt Task Group) developing the P802.16h amendment
- A forum to reviewing mechanisms for co-located coexistence in 802.16 and 802.11

Details of co-located coexistence activity

- Two presentations:
 - **Document title:** *IEEE 802 Air-Interface Support for Co-Located Coexistence* (IEEE 802.19-08/21r2)
 - <https://mentor.ieee.org/802.19/file/08/19-08-0021-02-0000-ieee-802-air-interface-support-for-co-located-coexistence.ppt>
 - **Document title:** *Radio Resource Management of Coexisting Multi-Radio Systems* (IEEE 802.19-08/26r1)
 - <https://mentor.ieee.org/802.19/file/08/19-08-0026-01-0000-radio-resource-management-of-coexisting-multi-radio-systems.ppt>
 - 802.19 TAG has offered to make itself available (via reflector and/or conference calls) to facilitate further discussion on this topic

Details of 3.65GHz activity

- Bi-weekly conference calls continued since the last plenary March 2008
- Conference calls focused on the comments received during the Electronic Commenting Process on the following documents:
 - *Simulation Parameters Document* (IEEE 802.19-07/11r15)
 - Document title: *Parameters for simulation of Wireless Coexistence in the US 3.65GHz band*
 - <https://mentor.ieee.org/802.19/file/07/19-07-0011-15-0000-parameters-for-simulation.doc>
 - **Document Approved**
 - *Coexistence Metrics Document* (IEEE 802.19-07/20r4)
 - Document title: *Coexistence Metrics for the 3650 MHz Band*
 - <https://mentor.ieee.org/802.19/file/07/19-07-0020-04-0000-coexistence-metrics-for-3650mhz-band.doc>
 - **Document nearing Approval** (to be approval by Straw Poll on Conference Call prior to next Plenary [November 2008]))
- These two documents support the generation of coexistence simulation results for inclusion in a *Coexistence Assurance Document*
- Plan to continue holding bi-weekly conference calls starting **5 August 2008**

Current work on 3.65GHz Coexistence

- *Coexistence Assurance Document*
 - A document containing the demonstration of coexistence with supporting simulation results
 - Drawing on the two documents mentioned on the previous slide
 - Coexistence studies simulation results were discussed this week
 - Document title: *Some simulation results for 802.16h CX-CBP in 3.65GHz* (IEEE 802.19-08/24)
 - <https://mentor.ieee.org/802.19/file/08/19-08-0024-00-0000-some-simulation-results-for-802-16h-cx-cbp-in-3-65ghz.ppt>
 - Document title: *Simulation of WirelessMAN-UCP coexistence with 802.11y in the 3.65GHz band* (IEEE 802.19-08/25)
 - <https://mentor.ieee.org/802.19/file/08/19-08-0025-00-0000-simulation-of-wirelessman-ucp-coexistence-with-802-11y-in-the-3-65ghz-band.pdf>
 - Comments were received on the preliminary simulation results and further discussion to follow
 - 802.19 TAG to review the first version of the *Coexistence Assurance Document* prior to the next Plenary (November 2008) with discussion at the Plenary