IEEE P802.15

**Wireless Personal Area Networks**

|  |  |
| --- | --- |
| Project | TG 4n Chinese Medical Band  |
| Title | **Meeting Minutes for May 2013**  |
| Date Submitted | May 16, 2013 |
| Source | [Liang Li][Vinno] | Voice: 1-914-333-9687E-mail: liangli@vinnotech.com |
| Re: | Meeting Minutes |
| Abstract |  |
| Purpose | Minutes of TG 4n sessions |
| Notice | This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. |
| Release | The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.15. |

**Session 1**

**Monday, May 13, 2013, 10:30**

Meeting was called to order by the chair.

Chair reviewed patent policy and asked:

Does anyone indicate essential IP that needs to be noted?

No one answered.

The chair asked for approval of the previous meeting minutes (13-0221).

Meeting minutes were approved unanimously.

The chair presented “Opening Report” (13-0298).

Liang Li presented Translation-of-chinese-miit-doc423-2005, (12-0105-01).

Liang adds several words for several sections. Attendees agree the enhancement.

Liang and Andy gave the explanation based on understanding. Both of them draw the spectrum and spurious radio plots.

Andy agreed to draw several plots to clear the spurious concepts.

Liang Li presented Dual-band-dsss-phy-proposal-for-ieee802-15-4n, (13-0584-06).

Q: Why and how will you do the O-QPSK (8,4) DSSS whitening?

A; This part is introduced from 4G. The whitening raises the processing gain.

Q: Slide 13: What is the RBW for slide 13 to get -45 dB?

A: The spectrum plot calculation is db/Hz.

Q: Slide 16: What is the interferer for receiver design for Alternate channel rejection?

A: Will investigate and present later.

The meeting was recessed by at 12:30 PM.

**Session 2,**

**Tuesday, May 14, 2013, 13:30**

Meeting was called to order by the chair.

Andy Bottomley presented FSK PHY Channelization and Data Rate Proposal (13-0037-04).

Q: What should we choose as the interfering signal: modulated or CW?

A: 6 people felt: modulated, 0 for CW. (Art: I do not understand this Answer)

Q: Is the proposal OK at the band edges?

A: 200kbps / 500 kHz channels seems ok everywhere except at the band edges power may have to back off power by few dBm.

Q: Do you need 100 ppm crystals?

A. 40 ppm should be OK.

Q: Could interferer be O-QPSK?

A: It would probably win with 2MHz channels.

The meeting was recessed at 18:00 PM.

**Session 3**

**Tuesday, May 14, 2013, 16:00**

Meeting was called to order by the chair.

Chair asked for volunteers for secretary and technical editor.

Dietmar Eggert presented Integration of Ranging Capabilities with PHY Supporting (13-0299) (651, 13-0180).

Q: What about the interference?

A: Blacklisting of bad channels to skip over the interfered channels.

Q: Is this ranging suitable to all of bands?

A: Yes.

Q: Crystal accuracy?

A: 100 ppm or better is OK.

Q: Suggestion was made to consider pseudo random hopping.

A: We are investigating this.

Liang Li presented Adaptive-timeslot-allocation-scheme-for-wban, (13-0006-03).

Attendants agree to combine the priority processing procedure of 4K in the 4N.

Q: How you define the priority of medical data

A: It is better not to give the detail definitions of medical priority. Only define low priority of networking maintain signals. Application could define the priorities of different medical signals.

Chair suggested that we consider a tutorial in Nanjing in September 2013.

The meeting was recessed at 17:15 PM.

**Session 4**

**Thursday, May 16, 2013, 13:30**

Meeting was called to order by the chair.

Ken presented Joint Filtered FSK PHY Proposal (13-0321-01).

Q: Do you have to define Gaussian FSK.

A: No, just give eye diagram.

Q: Slide 3 can MI .5 talk to MI= 1?

A: System designer will set one or the other.

Q: What is the ACR and ALTCR for all 5 modes 50 MI=1 and for 100, 200 (MI = 0.5 or 1)

A: We will look at this next meeting.

Look at 15-04-0585 for channel model at 900MHz.

Q: Need the completed simulations to support this FSK proposal.

A: Agree. Add in the next conference.

Attendants agree to define it as such 2 Filtered FSK as GFSK.

Q from Liang Li: Have you considered the simulation for multiple-path?

A from Ken: Which multiple-path model is applicable?

Q from Liang: Suggest the following model: IEEE P802.15 Working Group for WPANs, Multipath Simulation Models for Sub-GHz PHY Evaluation, 15-04-0585-00-004b, Oct. 2004.

A: Will consider it.

We then took the Straw Poll for:

Poll 1: Should the interfering signal be modulated 4n signal (as opposed to CW)

Y: 6 ; N: 0; A: 0

Poll carries.

Call for tech editors and secretary.

Masahiro and Liang would like to be tech editors.

Attendants suggest Andy to be secretary. Andy needs the approval from company.

Chair will organize a teleconference to resolve the remaining issues before next meeting.

The first conference will be Thursday May 30 at 18:00, PST, which is Friday May 31, 10:00 AM in Japan.

We have 4 slots in July conference.

The meeting was adjourned by the chair.