

IEEE P802.15  
Wireless Personal Area Networks

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Project	IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)		
Title	Minutes of the conference call between TG3c and VHT on July 7, 2008		
Date Submitted	15 July 2007		
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Re:	802.15.3c Meeting Denver		
Abstract	Minutes of the conference call between TG3c and VHT on July 7, 2008		
Purpose	Official minutes of the TG3c Session		
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**Minutes of Conference call between TG3c and VHT on July 7, 2008**

Objective: To enhance mutual understanding between TG3c and VHTSG

Date and time: From 11 AM, July 7, 2008 for 45 minutes

Attendees: 30

- Reed Fisher, Bruce Bosco, Albero Valdes Garcia, Su Kihong Yong, Shu Kato, Hiroshi Harada, Fumihide Kojima, Akio Iso, Zhou Lan, Chang woo Pyo, Chang-Soon Choi, Sandrine Roblot, Andre Bourdoux, Yasunao Katayama, Yu Zhan, Makoto Noda, Hiroyuki Yamagishi,
- Eldad Perahia, Mark Grodzinsky, Christopher Hansen, Padam Kafle, Brian Hart, Gary Anwyl, Vered Bar, Chambelin Philippe, Robert J Stacey, Stephen P. Pope, Liwen Chu, Jack Winters,

**Summary of discussion:**

1. The discussion material from TG3c was presented by Shu Kato
2. Shu Kato explained the document was not officially approved by TG3c but would be a good summary of TG3c's concern.
3. Eldad Perahia commented that any comments he has received personally will be considered as comments to VHT 60 PAR and there is no need for formality.
4. The points of the discussion material are:
  - i. Co-existence ( the same channelization, Common mode for all PNC capable devices, some etiquette rule which will allow to open a channel for new devices, investigation to applicability of the PHY developed by TG3c with the highest priority)
  - ii. Uniqueness of PAR ("TG3c" suggests: a. Necessity to compare the proposed PAR with the existing PAR in the same frequency band (TG3c), b. Necessity to identify differences/uniqueness: must be stated clearly)
  - iii. VHT60 PAR: may need further clarification including: a. "Maintain the 802.11 user experience" (in Scope), b. Applications differences from those of TG3c, c. Transmission range.
5. There were several questions on clarification on PNC role in TG3c MAC. Although the purpose of "Common mode for all PNC capable devices" is to avoid interferences better, the concern on PNC capable devices in 802.11 was left for further discussion in Denver.
6. Eldad stated that carrier sense MA is used in 802.11 and there is no necessity for a device to control channels. Shu Kato responded as we may need TDMA type channel control for efficient multi gigabit bps transmission.
7. There were several questions on mandatory Common mode mandatory in TG3c spec.
8. Eldad asked that if TG3c mandating PNC capability in VHTSG. Shu responded as it is a suggestion and need to discuss in Denver
9. Brian Hart asked the necessity of discussing applications since 802.15 and 802.11 are

responsible for MAC and PHY and applications are out of scope. The answer from Shu Kato was that yes, we need to discuss the applications since if the applications are the same, then the scope will become similar and it may affect uniqueness of PAR.

10. Bar Vered asked the similarity of the relationship of TG3c and VHTSG as 802.11 and 802.16 bridged by 802.21. Shu responded as 802.21 working on 802.16 and 802.11 handover and a different group can work on handover between two different air interfaces
11. Bar Vered asked what is the goal - a change on VHT60 PAR including co-existence or handled by a different SG? Shu responded as VHT60 SG will be asked co-existence between the two at the plenary session for VHT PAR approval.
12. Eldad stated that he has been working on 3650 MHz co-existence issue between the two and 802.19 has been helpful. Shu responded that we may need to get 802.19 people involved in our issue as well.
13. Eldad will prepare the discussion material used for the two tele-conferences for the Denver meeting and TG3c will present what TG3c has achieved so far including applications.