IEEE P802.15

Wireless Personal Area Networks

Project	**IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)**	
Title	**Memo of Tele-Conference Call for TG3c, 2008 Apr 16**	
Date Submitted	16 April 2008	
Source	[Tuncer Baykas] [NICT] [Yokosuka, Japan]	Voice: [+81-80-50471905] E-mail: [tuncerbaykas@nict.go.jp]
Re:		
Abstract	Minutes of April 16th Tele-Conference Call for TG3c	
Purpose	Minutes of April 16th Tele-Conference Call for TG3c	
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.	

Memo of Tele-Conference Call for TG3c, 2008 April 16

Date: April 16th, 2008, 15:00 in PST

Attendees:

James Gilb (Sibeam), Reed Fisher (Oki), Shuzo Kato, Hiroshi Harada, Akio Iso, Fumihide Kojima, Ryuhei Funada, Ryota Kimura, Zhou Lan, Chang-woo Pyo, Junyi Wang, Chin-Sean Sum, Tuncer Baykas, Azizur Rahman (NICT), Raymond Yu Zhan (Panasonic), Rick Roberts, Robert Stacey (Intel), Bruce Bosco (Motorola), Alberto Valdes-Garcia, Yasunao Katayama (IBM), Seok ho Kim (Inha Uni.), Paul Strauch(Realtek), James Yee (MediaTek), Makoto Noda, Hiroyuki Yamagishi (Sony), Ichirou Ida (Fujitsu), Huai-Rong Shao (Samsung)

Discussed Document:

15-08-0240-00-003c

Action Items:

1. James Gilb will check how MAC operates if multiple PHYs are available. J.Gilb will provide SC and AV-OFDM capable PNC starting procedure for discussion. (MMC PNC starts SC mode first and allocates CTA for AV-OFDM)
2. James Gilb how to add channel probing info in the payload of Directional ACK
3. James Gilb will provide the details of retransmission procedure.

What discussed:

1 Document 15-08-0240-00-003 Questions/Comments on Av-OFDM MAC

- 1.1 Response to Comment 1: All LRP and HRP (3LRPs per HRP and 4HRPs) channels are scanned
- 1.2 Response to Comment 2: Omni means the coverage is as much as possible. Ref section 12.4.2.2 (Antenna directions or patterns are selected such that the transmission covers the region of space that is of interest).
- 1.3 Response to Comment 3: All 4 LRP modes are base rate. PNC will select the data rate. Preambles are the same but data rates are different.
- 1.4 Response to Comment 4: CCA time is related with the preamble. Channel Switching Time is for easy implementation (140us for bluetooth, 750us for cellular).
- 1.5 Response to Comment 5: It will comply with 15.3
- 1.6 Response to Comment 6: No
- 1.7 Response to Comment 7: All LRPs

1.8 Response to Comment 8: All LRPs. Definition of data rates supported in CAP will be defined separately in SC, HSI, AV-OFDM PHY sections. Later on related MAC description will be added. J.Gilb will provide SC and AV-OFDM capable PNC starting procedure for discussion (MMC PNC starts SC mode first and allocates CTA for AV-OFDM)

1.9 J.Gilb asked what the definition of DEV-DEV association is. The answer was it is for the preparation of DEV-DEV communication with directional antenna J.Gilb said DEV-DEV association can be included in beamforming.

1.10 Response to Comment 9: Base rate (All LRPs)

1.11 Response to Comment 10: No need. The name DEV DEV Association could be confusing. DEV DEV association is included in beamforming

1.12 Response to Comment 11: No difference.

1.13 Response to Comment 12: It indicates which antenna is the best and is used for maximum ratio combine.

1.14 Response to Comment 13: Yes. AV-OFDM beamforming procedure will be the same to SC beamforming procedure.

1.15 Response to Comment 14: Channel probing is optional, done in CTA, with directional ACK. Channel probing procedure of AV-OFDM will be the same to SC channel probing procedure. Action for James Gilb: how to add channel probing info in the payload of Directional ACK

1.16 Response to Comment 15: AV-OFDM agrees the minimum fragment size of 512 octets.

1.17 Response to Comment 16: In process will be in DF3

1.18 Response to Comment 17: Same as 15.3. James Gilb will provide the details of retransmission procedure.

1.19 Response to Comment 18: One of LRPs

1.20 Response to Comment 19: Reducing overhead. Directional ACK is a special frame not complying to 15.3b because MAC header is not necessary for peer-to-peer communication. However it is needed to MAC header at the initiation.