Doc: IEEE802.15-08/0116r0

Memo of Tele-Conference Call for TG3c, 2008 Mar 4

Date: Mar 4th, 2008, 6.00am in PST

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Attendees:

James Gilb (Sibeam), Reed Fisher (Oki), Solomon Trainin, Rick Roberts, Carlos Cordeiro, Robert Stacey (Intel), Raymond Yu Zhan, Michael Sim (Panasonic), Brian Gaffney, Michael Mc Laughlin (Decawave), André Bourdoux (Imec), Edwin Kwon, Jisung Oh, Huai-Rong Shao (Samsung), James Yee (Mediatek), Makoto Noda , Hiroyuki Yamagishi (Sony), Ismail Lakkis (Tensorcom), Jason Trachewsky (Broadcom), Mark Grodzinsky (Wilocity), Yongsun Kim (ETRI), Paul Strauch(Realtek), Yasunamo Katayama, Alberto Valdes-Garcia (IBM), Shuzo Kato, Hiroshi Harada, Akio Iso, Fumihide Kojima, Ryuhei Funada, Ryota Kimura, Zhou Lan, Chang-woo Pyo, Junyi Wang, Chin-Sean Sum, Tuncer Baykas (NICT)

Discussed Document:

15-08-0102-02-003c-resolutions-to-comments-discussed-at-taipei.pdf is discussed up to slide 44.

Documents 802.15-08-0104-00-003c and 15-08-0042-01-003c were not discussed due to time constraints.

Action Items:

1. James Gilb will check if the proposed fragment size (Comment number 10) suits to AVOFDM.
2. James Gilb will check the proper definition of base rate and if a PHY should use only one base rate (Comment number 23).
3. James Gilb is going to provide the rule for using Imm-ACK to report channel status information (Comments 16-38)

What discussed:

1 Discussion on MMC-PNC and Super-PNC

1.1 The proposal on MMC-PNC and Super-PNC was presented.

1.2 Consensus on setting the Common Rate as mandatory for all MMC-PNC and Super-PNC was achieved

1.3 An MMC-PNC is defined as a PNC that supports Common Rate and multiple PHY modes.

1.4 A Super-PNC is defined as an SC-PNC that supports Common Rate and one or multiple PHY modes.

1.5 The definition and features of MMC-PNC and Super-PNC were discussed.

1.6 The basic procedure of MMC-PNC and Super-PNC were discussed

2 Discussed comments are below. The order of the comments is taken from the document. First PHY comments were discussed followed by MAC comments.

No.	Task	Updates
PHY 10	We need to define the preferred fragment size mapping for each of the PHY modes or possibly one for all PHY modes.	Fragment size is given and it will be checked for AV OFDM by James Gilb
20	Add requirement that MMC PNCs implement the common mode.	Discussed in detail, check discussion topics 1.1-1.6
21	What PHY mode is used in the CAP	Agreed to write “The mode used in beacon”
22	Add a description of the MMC PNC to Clause 5 in relation to the beaconing and the CAP.	James Gilb and sub-editors will work on it
23	Each PHY needs to explicitly define the base rate that will be used	Check action item 2
28	Can we unify the use of FCS's and types of FCS?	All FCSs are the same for all Phy modes. Sc PHY keeps its 2 octet HCS s
30	Do we use one or two HCS for the headers, including the extended MAC header.	Agreed to have 2 HCS, James Gilb will check why only long HCS is used in AV OFDM
34	Can the SC and HSI PHY use a single preamble format?	To be discussed in Orlando
MAC 2	Do we need a capability fieled to indicate a DEV is MMCPNC capable?	Resolution in the document is accepted
5	Do we need reserved stream indices for beamforming and channel probing.	To be discussed in Orlando

6	Does the resolution of the superframe timing need to be less than 1 us?	To be discussed in Orlando, **Suggestion from James Gilb :** Keep the current superframe timing and work on higher resolution timing unit.
7	Will Dly-ACK do what is necessary for Blk-ACK or are there unique things that Blk-ACK needs to do. Also, can this concept be extended to include the AV PHY directional ACK.	To be discussed in Orlando
8	Do we add SIFS and MIFS capabilities here or in another information element.	Resolution: Yes and 4 bits is allocated for SIFS and MIFS and agreed.
9	How do we encode all of the supported data rates.	Explained in the document and agreed
11	How do DEVs know when the superframe starts and when the last beacon ends if they receive one beacon in the middle of a set of beacons.	Explained in the document and agreed.
12	How does a DEV know when the first symbol of the beacon is sent when there is repetition coding.	Explained in the document for SCPHY and agreed
16 and 38	What is the definition of the value of the Channel Status Information field? Can we use the existing facilities in 802.15.3b to accomplish this in a manner that improves the performance.	Explained in the document, James Gilb is going to provide the rule for using Imm-ACK to report channel status information
17 and 36	Can this be done with an information element? Also, there are some updates to the frame format that need to be reviewed. Rather than using commands, if the UEP capabilities are exchanged as part of the normal capabilities exchange, then the commands are not needed.	Explained in the document and agreed.
New comment	Do we need IFS info in PHY header?	To be discussed in Orlando