
IEEE P802.15
Wireless Personal Area Networks

Project	IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)		
Title	Minutes of the conference call on the channel model		
Date Submitted	[4 August 2005]		
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Re:	[Minutes of the conference call – TG3c Channel Model Subgroup]		
Abstract	[]		
Purpose	[]		
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Date

The 25th conference call was held on August 2, 2005, at 8 PM EST.

Participants

- 1 Akira Akeyama
- 2 Gary Baldwin
- 3 Shahriar Emami
- 4 Nobuhiko Kuribayashi
- 5 Abbie Mathew
- 6 Tony Pollock
- 7 Alireza Seyedi

Issues Discussed

- (a) Gary gave an update of his meeting with the FCC last week.
- (b) Abbie gave an update on the IBM measurement data.
- (c) The project timeline (APPENDIX – A) was discussed and there were no objections.
- (d) As NICTA and UMass will be making reflection measurements, it was decided not to pursue collecting measurements data/papers from other authors/researchers. However, if such information is available, they will be uploaded to the IBM server for future reference.
- (e) There was discussion on whether to cancel next week's conference call. It was decided that the cancellation will only occur if there are no issues/events for discussion. See below for more details.

Action Items

- (a) Daniel Zitrick, Felix Gutierrez and Cheol Hee Park, students of Prof. Rappaport at University of Texas, will join us for a Q&A session next week. I have informed them that the subgroup members will question them on the paper titled "Design and Implementation of an Ultrabroadband Millimeter-Wavelength Vector Sliding Correlator Channel Sounder and In-Building Multipath Measurements at 2.5 GHz & 60 GHz" and their other work in 60 GHz. One of the students is working on a 60 GHz MAC. Although this subgroup has nothing to do with the MAC, members are encouraged to make use of this opportunity to talk to workers/researchers in this field. Owing to this development, the conference call next week will not be cancelled.

Next Conference Calls

The next meeting will be held at the times listed below. The dial-in number is (641) 985-8000 and the access code is 657719#.

US Eastern Standard Time	8.00 PM, August 9 - Tuesday
US Mountain Time	5.00 PM, August 9 – Tuesday
US Pacific Time	5.00 PM, August 9 – Tuesday
Japan/South Korea Time	9.00 AM, August 10 – Wednesday

South Australia Time	9.30 AM, August 10 – Wednesday
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APPENDIX - A

Project Time Line

ID	Task Name	Start	Finish	Duration	Aug 2005				Sep 2005				Oct 2005				Nov 2005				Dec 2005				Jan 2006							
					31/7	7/8	14/8	21/8	28/8	4/9	11/9	18/9	25/9	2/10	9/10	16/10	23/10	30/10	6/11	13/11	20/11	27/11	4/12	11/12	18/12	25/12	1/1	8/1	15/1	22/1		
1	Review IBM Measurement	8/8/2005	8/26/2005	15d	[Gantt bar from 8/8 to 8/26]																											
2	NICTA Measurement Data Availability	8/26/2005	8/26/2005	1d	[Gantt bar at 8/26]																											
3	UMass Measurement Data Availability	8/26/2005	8/26/2005	1d	[Gantt bar at 8/26]																											
4	Data Analysis	8/29/2005	9/30/2005	25d	[Gantt bar from 8/29 to 9/30]																											
5	IEEE Meeting, Garden Grove	9/19/2005	9/23/2005	5d	[Gantt bar from 9/19 to 9/23]																											
6	Develop Matlab Code	10/3/2005	10/28/2005	20d	[Gantt bar from 10/3 to 10/28]																											
7	Preparation for Vancouver	10/31/2005	11/11/2005	10d	[Gantt bar from 10/31 to 11/11]																											
8	IEEE Plenary, Vancouver (Submission)	11/14/2005	11/18/2005	5d	[Gantt bar from 11/14 to 11/18]																											
9	Develop Channel Model Paper	11/21/2005	1/13/2006	40d	[Gantt bar from 11/21 to 1/13]																											
10	IEEE Plenary, Big Island, HI	1/16/2006	1/20/2006	5d	[Gantt bar from 1/16 to 1/20]																											

APPENDIX - B

#	Paper Title	File	Contact Person	Status
1	BROADWAY functional system parameter description	Broadway-wp1-d2	Bruce Bosco	Uploaded one paper to the IBM server ¹ . Similar to a paper titled 'MEDIAN 60 GHz Wideband Indoor Radio Channel Measurements and Model' – also on the server. Require clarification.
2	BROADWAY study "the 60 GHz channel and its modeling"	Broadway-wp3-d7R3_annex1	Bruce Bosco	
3	BROADWAY simulation results for the 60 GHz indoor radio channel	Broadway-wp3-d7R3_annex2	Bruce Bosco	
4	MEDIAN 60 GHz wideband indoor radio channel measurements and model	Kunisch_Zollinger_Pamp_Winkelmann_IEEE1999	Chia-Chin Chong	The author (Kunisch) will provide information by mid-August.
5	Analysis of 60 GHz band indoor wireless channels with channel configuration	Park_Kim_Hur_Lim_Kim_IEEE1998	Chia-Chin Chong	Similar to this paper on the server. [CLOSED]
6	In-building wideband partition loss measurements at 2.5 GHz and 60 GHz	Anderson_Rappaport_IEEEMay2004	Brian Gaucher	On the IBM server ² [CLOSED]
7	Spatial and temporal characteristics of 60 GHz indoor channels	Xu_Kukshya_Rappaport_IEEEApr2002	Abbie Mathew	Awaiting to hear from Prof. Rappaport.
8	Effects of antenna directivity and polarization on indoor multipath propagation characteristics at 60 GHz	Manabe_Miura_Ihara_IEEEApril1996	Alireza Seyedi	Uploaded two Manabe's papers to the IBM server ³ . [CLOSED]
9	Multipath measurement at 60 GHz for indoor wireless communication system	Manabe_Taira_Sato_Ihara_Kasashima_Yamaki_IEEE1994	Alireza Seyedi	
10	Measurements of reflection and transmission characteristics of interior structures of office building in the 60 GHz band	Sato_Manabe_Ihara_Saito_Ito_Tanaka_IEEEDec1997	Alireza Seyedi	
11	Measurement of the complex refractive index of concrete at 57.5 GHz	Sato_Manabe_Polivka_Ihara_Kasashima_Yamaki_IEEEJan1996	Alireza Seyedi	
12	Geometrical optics model for millimeter-wave indoor radio propagation	Smulders_ElectronicsLettersJune1993	Su-Khiong Yong	The author cannot provide the measured data in the timeframe we require. [CLOSED]

¹ 60 GHz Indoor Radio Channel Measurement, MEDIAN AC006

² Anderson's Master's thesis titled "Design and Implementation of an Ultrabroadband Millimeter-Wavelength Vector Sliding Correlator Channel Sounder and In-Building Multipath Measurements at 2.5 GHz & 60 GHz." (File 'Anderson_MasterThesis_UTexas' on the IBM server).

³ Papers are (a) Measurement of complex refractive index of soda-lime glass at 60 GHz by vector network analyzer based scatterometer, and (b) Polarization dependence of multipath propagation and high speed transmission characteristics of indoor mmW channel at 60 GHz.