

Project	<b>IEEE 802.16 Broadband Wireless Access Working Group</b> < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >	
Title	<b>Minutes of the IEEE 802.16.2 Meeting of October 25 - 26, 2000</b>	
Date Submitted	<b>2000-10-29</b>	
Source(s)	Rémi Chayer, TG2 vice-chair Andy McGregor, TG2 co-chair	Voice: 1 (514) 421-8360 / (613) 763-7942 Fax: 1 (514) 421-0979 / (613) 765-5598 <a href="mailto:rchayer@harris.com">mailto:rchayer@harris.com</a> <a href="mailto:mcmgregor@nortelnetworks.com">mailto:mcmgregor@nortelnetworks.com</a>
Re:	Minutes of Meeting #9.5	
Abstract	N/A	
Purpose	This informs the remainder of the Task Group of the outcomes from of interim TG2 meeting in Ottawa.	
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Patent Policy and Procedures	<p>The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures (Version 1.0) &lt;<a href="http://ieee802.org/16/ipr/patents/policy.html">http://ieee802.org/16/ipr/patents/policy.html</a>&gt;, including the statement "IEEE standards may include the known use of patent(s), including patent applications, if there is technical justification in the opinion of the standards-developing committee and provided the IEEE receives assurance from the patent holder that it will license applicants under reasonable terms and conditions for the purpose of implementing the standard."</p> <p>Early disclosure to the Working Group of patent information that might be relevant to the standard is essential to reduce the possibility for delays in the development process and increase the likelihood that the draft publication will be approved for publication. Please notify the Chair &lt;<a href="mailto:r.b.marks@ieee.org">mailto:r.b.marks@ieee.org</a>&gt; as early as possible, in written or electronic form, of any patents (granted or under application) that may cover technology that is under consideration by or has been approved by IEEE 802.16. The Chair will disclose this notification via the IEEE 802.16 web site &lt;<a href="http://ieee802.org/16/ipr/patents/notices">http://ieee802.org/16/ipr/patents/notices</a>&gt;.</p>	

## IEEE 802.16.2 Interim Meeting

### Minutes of the Oct. 25 – 26, 2000 Meeting

*Rémi Chayer*  
*Harris Corporation*  
*Vice-Chair TG2*

*Andy McGregor*  
*Nortel Networks*  
*Co-chair TG2*

The meeting was called to order at 08:25 hours by the co-Chair (Andy McGregor). Nine people attended this interim meeting. (Annex 1).

Remi Chayer and Andy McGregor agreed to jointly act as secretary. The agenda for the meeting (Annex 2) was discussed and approved. The major purpose of the meeting was resolution of comments on the draft Practice document which is currently out on Task Group ballot.

Remi Chayer and Vito Scaringi agreed to document the specific outcomes of the Comment Resolution process. TG2 agreed on keeping a spreadsheet database of all comments for the current "Call for Comments". Future versions will use other spreadsheets. The spreadsheet shows the document revision number in the title and each line will show the comment reference number, last name and first name of the person making the comment, IEEE membership status, commentor's reference number, page and line number, type of comment, brief description and resolution. This spreadsheet will be included in the minutes of the meeting and kept for archive (Annex 3). This spreadsheet will also be used in Tampa, unless the extensive Access database (as used by other TG's) is ready.

Andy McGregor will only be able to continue attending the 802.16 TG2 meeting until meeting #10 in Tampa. He agreed to chair the Tampa meeting but will stop attending thereafter.

Most of the comments were editorial in nature. 90 comments were received in written format and 24 comments were received verbally from the various participants. During the review All comments were resolved.

The TG also discussed and prepared comments relating to Coexistence issues on the current TG1 PHY document. Four comments will be submitted to TG1 by the chair on behalf of TG2.

The existing timeline was discussed and still considered to be accurate.

The meeting was closed by the Chair (Andy McGregor) at 16:00 hours on October 26th.

## **Annex 1 List of Participants**

Rebecca Chan  
Remi Chayer  
Jack Garrison  
Demos Kostas  
Andy McGregor  
Vito Scaringi  
Muya Wachira  
Phil Whitehead  
Robert Whiting

## **Annex 2 Agenda**

1. Housekeeping
2. Ballot Comments
  - Rebecca Chan, Industry Canada (4)
  - Phil Whitehead, Radiant Networks (1)
  - Andy McGregor, Nortel Networks – technical (4)
  - Andy McGregor, Nortel Networks – editorial (53)
  - RABC – editorial (4)
  - Barry Lewis, RA (24)
  - Verbal comments By participants
3. Ballot Comments to TG1
  - Antenna RPE
  - OOB Spec
  - Auto CPE Power control
  - EIRP Power limits
4. AoB
  - Time Schedule

**Annex 3 Table of Comments and Resolution**

Source Document: 802162-00_01r9.pdf					Comments: 25/26th October 2000				
Ref#	Last Name	First Name	Member	orig ref#	Page	Line	Type	Brief Description	Resolution
1	Chan	Rebecca	O		30		T	new 6.1.1.1	Changes accepted but need rev. number of the document in reference
2	Chan	Rebecca	O		31		T	new 6.1.1.2	Changes accepted but need rev. number of the document in reference
3	Chan	Rebecca	O		92		T	new Annex D "IC"	Changes accepted
4	Chan	Rebecca	O		99		T	new Annex F "IC"	Changes accepted but change the section title to "Industry Canada Coordination Process". Need Annex E title changed to refer to UK coordination process
5	Whitehead	Phil	M				T	new CS-CS text 802162c- 00/20.pdf	Changes accepted
6	McGregor	Andy	M		34	16	T	OOB single+multi	Changes accepted
7	McGregor	Andy	M		53	3	T	guard channel	Changes accepted but add another sentence stating that the case where an operator uses multiple channel sizes has not been studied.
8	McGregor	Andy	M		62	12	T	EIRP to PSD	Changes accepted
9	McGregor	Andy	M		62	32	T	TDD/FDD BS colocation	This subject should go in section 9.5 and in 9.7.1. Wording should be: "Careful planning is required for co-sited antennas".
10	McGregor	Andy	M		2	13	E	delete -	Accepted
11	McGregor	Andy	M		7	28	E	"local regulations"	Accepted
12	McGregor	Andy	M		7	33	E	delete "s"	Delete the whole word "publications" and replace with colon.
13	McGregor	Andy	M		10	20	E	Bom, Bou, Bol	Accepted
14	McGregor	Andy	M		10	27	E	total mean power	Accepted
15	McGregor	Andy	M		10	34	E	Authorized BW	Accepted
16	McGregor	Andy	M		11	9	E	del "at all freq"	Use "over the specified band" instead
17	McGregor	Andy	M		12	7	E	Bo acronym	Accepted
18	McGregor	Andy	M		12	12	E	CEPT	Accepted. Add "...Européenne...Postes..." and in English, remove the accents.
19	McGregor	Andy	M		13	26	E	TS acronym	Accepted
20	McGregor	Andy	M		13	33	E	do not respect	Delete whole sentence instead.

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21	McGregor	Andy	M		13	39	E	PCS/intentional	Delete "(e.g. PCS and cellular phones)" instead. Accepted Section 9.10 instead of Section 0. Remove radiated spurious and add fluorescent lights and electrical machines. Accepted are instead of is. Also remove the words "In the real world.." Change last sentence in first paragraph to "Coexistence issues between multiple operators are therefore inevitable."
22	McGregor	Andy	M		14	23	E	marshalled	Accepted
23	McGregor	Andy	M		15	3	E	del in (b)	Accepted. Also remove "above".
24	McGregor	Andy	M		15	8	E	insert ","	Accepted comment. Additionally, in the same sentence, change acknowledge to investigate, prediction to assessment and suggests to predicts. Add interference at end of the sentence.
25	McGregor	Andy	M		15	18	E	insert ","	Rejected. Remove last sentence "In some regulatory...promote coexistence."
26	McGregor	Andy	M		15	20	E	freq reuse	Modify sentences to: "Each operator should design and deploy their system for minimum intra-system interference. The logic behind this Recommendation is that the same techniques of base station site selection, pattern management and emission control that are employed to facilitate minimum intra-system interference should contribute to its coexistence with other systems. Recommendations 9, 10 and 11 below and in Section 6 provide recommended antenna performance, spectral masks and maximum EIRP from the vantage point of coexistence. These guidelines however do not guarantee coexistence" Delete:"Even the most...resolution of coexistence issues."
27	McGregor	Andy	M		16	21	E	Annexes d, e, f	Accepted
28	McGregor	Andy	M		17	10	E	colocation FDD BS	Change last sentence to: "For cases where no guard band is provided, it is recommended that co-location of harmonized base station emitters be considered before trying to improve emission masks." Throughout the paragraph, make "emission" singular. On first line, change from provided to described.
29	McGregor	Andy	M		17	12	E	max control of sub eirp	Change to: "Limit maximum EIRP in accordance with recommendations in Section 6.1.1 and use subscriber power control in accordance with recommendations in Section 6.1.2." Change in last sentence from ...are believed to... to ... should...
30	McGregor	Andy	M		23	1	E	graphic & interfere	Accepted
31	McGregor	Andy	M		26	22	E	delete "solit contribb"	Accepted

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32	McGregor	Andy	M		30	1	E	delete 2nd dec, add +	Accepted
33	McGregor	Andy	M		30	7	E	for this Practice	Accepted
34	McGregor	Andy	M		32	1	E	6.1.1.3	Change the title of 6.1.1.3 to "Repeater Station". Remove 6.1.1.4 heading, 6.1.1.5 and following will be renumbered.
35	McGregor	Andy	M		33	3	E	IILS - 6.1.1.2	Rejected
36	McGregor	Andy	M		34	14	E	transmit	Change sentence to: "Attenuation greater than 50+10logB0 dB is not required. An absolute transmit level below 70 dBW/MHz is not required.
37	McGregor	Andy	M		35	4	E	Europe sub- heading	Accepted (highlight note by making a more preminent heading)
38	McGregor	Andy	M		30?	7	E	for this Practice	withdrawn
39	McGregor	Andy	M		37	4	E	"the"	Accepted
40	McGregor	Andy	M		30?	7	E	for this Practice	withdrawn
41	McGregor	Andy	M		46	4	E	"a" in "harsher env"	Accepted
42	McGregor	Andy	M		47	3	E	6.2.4.4 sub head	Accepted (remove 6.2.4.4 and its label)
43	McGregor	Andy	M		48	7	E	"min" to "planned"	Resolved by Comment #96
44	McGregor	Andy	M		48	14	E	"paragraph recommends"	Delete last sentence of paragraph 1 in 6.3.1.2
45	McGregor	Andy	M		50	13	E	spelling * 2	Accepted.
46	McGregor	Andy	M		50	31	E	table split	Accepted
47	McGregor	Andy	M		30?	7	E	for this Practice	withdrawn
48	McGregor	Andy	M		52	8	E	following examine further	Accepted
49	McGregor	Andy	M		52	15	E	delete "process in section/fig	Accepted
50	McGregor	Andy	M		52	18	E	section 7.1	Accepted
51	McGregor	Andy	M		55	7	E	systems	Accepted
52	McGregor	Andy	M		55	10	E	see 5.3	Accepted
53	McGregor	Andy	M		58	22	E	freq reuse	Accepted
54	McGregor	Andy	M		59	30	E	interferes	Accepted

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55	McGregor	Andy	M		62	28	E	FDD colocate	Accepted. Change first sentence to "In practice, sector antennas that are directed to the same sector may be co-located." and last sentence to "....should be typically 60 to 100dB."	
56	McGregor	Andy	M		64	26	E	lightning	Accepted	
57	McGregor	Andy	M		65	8	E	replace ...	Accepted. In addition, delete "most" in front of stringent. Last sentence of first paragraph should read: "The product should be able to achieve the emission and immunity requirements within its specific entry, and also for the environment in which the product is intended to be used".	
58	McGregor	Andy	M		75	1	E	sub-headings in C, D, E	Accepted. Sub-headings to be added and to be shown in TOC	
59	McGregor	Andy	M		78	27	E	reference	Accepted. Remove last sentence "Futher details.....(ref.[])"	
60	McGregor	Andy	M		RC92	7	E	ref D.11-D.15	Accepted.	
61	McGregor	Andy	M		RC F		E	excerpt	Accepted.	
62	McGregor	Andy	M		RC F	8	E	ref & 325.35	Accepted	
63	RABC		N		68	2	E	ref D.12	Accepted.	
64	RABC		N		68?	2	E	ref D.12	withdrawn. Same as item 63	
65	RABC		N		72	2	E	ref D.26	Accepted.	
66	RABC		N		74	21	E	del column 4	Accepted. But in addition remove all of the calculations from 30-40GHz in Annex B.	
67	Lewis	Barry	M	1	10	1	E	definition of Mesh	Accepted. But change proposed text by deleting 'terminal' in two places and remove 'facilitates'.	
68	Lewis	Barry	M	2	13	33	E	"do not"	Already taken care of from ref.20	
69	Lewis	Barry	M	3	14	32	E	"each operator"	Accepted. But also remove 'from' on second paragraph.	
70	Lewis	Barry	M	4	15	10	E	2,6,7 co-ch	Accepted. Recommendation 2 add the words " To encourage this behaviour <b>for co-channel interference</b> , the document...." . For Recommendation 6,7 the words to be added to the beginning " This recommendation applies to co-channel cases only."	
71	Lewis	Barry	M	5	16	4	E	rec 6 countries	Accepted.	
72	Lewis	Barry	M	6	16	22	T	guardband	Accepted.	
73	Lewis	Barry	M	7	18	3	E	p-mp	Accepted. Add to note 1" the PMP is not usually a dominant case"	
74	Lewis	Barry	M	8	19	1	E	Overview	Rejected.	
75	Lewis	Barry	M	9	20	8	E	Mesh	Accepted.	
76	Lewis	Barry	M	10	24	12	E	dBW/MHz	Accepted. But the -132dBW/MHz to -144dBW/MHz	

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77	Lewis	Barry	M	11	25	1	E	Case 5.3.1.3.1	Accepted. bold 'Case A to H'
78	Lewis	Barry	M	12	30	1	T	power limits	Rejected.first sentence change. Accepted second second and final sentence change. Reject last paragraph change.
79	Lewis	Barry	M	13	49	17	E	penultimate	Rejected.
80	Lewis	Barry	M	14	50	25	E	table 11	Accepted. Change last paragraph "...or equal as stated in Table 11, averaged..." Delete the last sentence that is in brackets.
81	Lewis	Barry	M	15	52	10	T	sect 7.2 relevance	Accepted. Remove all in section 7.2, except for the last 3 lines"As stated in Rec....."
82	Lewis	Barry	M	16	53	11	E	psfd - IC & UK	Accepted.
83	Lewis	Barry	M	17	55	6	E	bullets	Accepted.
84	Lewis	Barry	M	18	57	6	E	CEPT ref & Bibliography	Accepted. Make reference to Bibliography and remove all words after CEPT/ERC (last sentence)
85	Lewis	Barry	M	19	61	16	E	FDD bases	Accepted. But also change 'FDD' to 'Harmonized'. And delete proposal "...but in adjacent frequency blocks."
86	Lewis	Barry	M	20	72	1	E	tidy	Accepted. First comment. Rejected second comment (30-40GHz), already deleted from ref.66.
87	Lewis	Barry	M	21	75	1	T	add simulations	Rejected. Already removed all reference from document, and it is concluded that there is sufficient information.
88	Lewis	Barry	M	22	95	1	E	add IC to UK	Rejected – using separate Annexes – see #4.
89	Lewis	Barry	M	23	94	1	E	fig 2 needed?	Already resolved.
90	Lewis	Barry	M	24	95	1	E	title	Rejected – see #88.
<b>End of written inputs at Oct 25/26th meeting</b>									
91	Wachira	Muya	M		16	7	E	24 26 28 38 42	Change 24,26,28 to 24, 26 and 28. Change 38,42 to 38 and 42
92	Kostas	Demos	M		26	41	E		Delete sentence "As long as...of the victim."
93	Garrison	Jack	M		33	11	E		In 6.1.2.1, change 15 dB of range to 15 dB of dynamic range
94	Garrison	Jack	M		34	7	E		Change to : "Unwanted emissions spectral density at the input to the antenna port should be attenuated by..."
95	Wachira	Muya	M		35/36	4	E		Put a note saying that the use of CS in the extract and Figures 8 and 9 refers to channel separation





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110	TG2				14	11	E		Section 4.1; paragraph 3, change; ' The consequence of these decisions is that coexistence, then, becomes as much a state of mind as it is a technological activity, relying heavily on the good-faith collaboration between spectrum holders for economical solutions to be implemented.' to ' Coexistence will rely heavily on the good-faith collaboration between spectrum holders for economical solutions to be implemented.'
111	TG2				14	7	E		Section 4.1; paragraph 3 , remove the sentence ' ' Moreover, it would be... in deployments.' Move the sentence ' I support of ... patterns,etc.' after paragraph 5.
112	TG2				14	17	E		Section 4.1 paragraph 4 change territory to territories.
113	TG2				14	19	E		Section 4.1 change paragraph 5 to " Coexistence issues may arise simultaneously from both scenarios as well as from multiple operators having the same scenario. Section 9 provides interference mitigation measures, which can be utilized to solve coexistence problems. Because of the wide variation in the distribution of users/base stations, radio emitter/receiver parameters, localized rain patterns and the statistics of overlapping emissions in frequency and time, it is impossible to prescribe in this document which of the mitigation measures are appropriate to resolving a particular coexistence problem. In the application of these mitigation measures, there should be an identification of individual terminals or groups of terminals for modification rather than the imposition of pervasive restrictions.
114	TG2				17	19	E		Recommendation 12; change first sentence ' ... incorporate..' to '... should be...'. Insert the word 'recommendation' before ITU-R in the (e.g...)
<b>End of TG verbal inputs at Oct 25/26th meeting</b>									