IEEE 802.16 Recirculation Ballot #2a

Yes

Arrakoski

Belfiore

Buskila

Approve 70 **Disapprove** 3 **Votes**

8

11

Approval Ratio 95.9% **Condition Met**

Abstain 10 **Ballots** 83 **Member Total**

61.9% **Condition Met** Yes

Return Ratio

Motion Approved

Yes

73		134	
Voter #	Last Name	First Name	Recirc 2a Vote
1	An	Song	Abstain for lack
Original	IB#2 Vote Ab	stain for lack of time	

Original LB#2 Vote |Abstain for lack of time Reza Arefi Original LB#2 Vote | Approve with no comments

Jori Original LB#2 Vote Approve with no comments

Carlos

Baruch

Arunachalam Arun V. Original LB#2 Vote | Approve with no comments Eli 5 Avivi

Original LB#2 Vote | Approve with no comments 6 Baragar Ian

Original LB#2 Vote Approve with no comments Baugh C. R. 7

Original LB#2 Vote | Approve with no comments

Original LB#2 Vote | Approve with no comments

Benyamin-Seeyar Anader Original LB#2 Vote Approve with no comments

Bilotta 10 Tom Original LB#2 Vote | Abstain for lack of time

Original LB#2 Vote | Approve with no comments 12 Chang Dean

Original LB#2 Vote Approve with no comments

Chayat 13 Naftali Original LB#2 Vote | Approve with no comments

k of time Approve with no comments Abstain for lack of time Approve with no comments

Approve with no comments

Approve with no comments

Voter # Last Name	First Name	Vote
14 Chayer	Rémi	Approve with no comments
Original LB#2 Vote Appro	ove with no comments	_
15 Condie	Mary	Abstain for lack of technical expertise
Original LB#2 Vote Absta	in for lack of technical	`
16 Costa	Jose	Approve with non-binding comments
Original LB#2 Vote Appro	ove with non-binding	
17 Currivan	Bruce	Approve with no comments
Original LB#2 Vote Appro	ove with no comments	
18 Dotan	Amos	Approve with no comments
Original LB#2 Vote Appro	ove with no comments	
19 Eidson	Brian	Approve with no comments
Original LB#2 Vote Appro	ove with no comments	
20 Eklund	Carl	Approve with no comments
Original LB#2 Vote Appro	ove with no comments	
21 Falconer	David	Approve with no comments
Original LB#2 Vote Appro	ove with no comments	
22 Fishel	George	Approve with non-binding comments
Original LB#2 Vote Appro	ove with non-binding	
23 Florea	Adrian	Approve with non-binding comments
Original LB#2 Vote Disap	prove with binding	
24 Foster	Robert	Approve with no comments
Original LB#2 Vote Appro	ove with no comments	
25 Freedman	Avraham	Approve with no comments
Original LB#2 Vote Appro	ove with non-binding	
26 Garrison	G. Jack	Approve with no comments
Original LB#2 Vote Appro	ove with no comments	
27 Germon	Richard	Disapprove with binding comments
Original LB#2 Vote Disap	prove with binding	
28 Guillemette	Phil	Abstain for lack of time
Original LB#2 Vote Absta	in for lack of time	
29 Hadad	Zion	Approve with no comments
Original LB#2 Vote Appro	ove with no comments	
30 Halachmi	Baruch	Abstain for lack of technical expertise
Original LB#2 Vote Absta	in for lack of technical	_

oter #	Last Name	First Name	Vote
31	Hamilton	Michael	Disapprove with binding comments
Original	LB#2 Vote	Approve with non-binding	
32	Hosur	Srinath	Approve with no comments
Original	LB#2 Vote	Approve with no comments	_
33	Hum	Coleman	Approve with no comments
Original	LB#2 Vote	Approve with no comments	_ `
34	Hunter	Wayne	Approve with no comments
Original	LB#2 Vote	Approve with no comments	_ `
35	Jacobsen	Eric	Approve with no comments
Original	LB#2 Vote	Approve with no comments	_ '
36	Jamali	Hamadi	Approve with no comments
Original	LB#2 Vote	Approve with no comments	_ '
37	Jorgensen	Jacob	Approve with no comments
Original	LB#2 Vote	Approve with no comments	_ ' ' '
38	Kang	Inchul	Approve with no comments
1	LB#2 Vote	Approve with no comments	_ '
39	Kasslin	Mika	Abstain for lack of time
	LB#2 Vote	Abstain for lack of time	_ '
40	Kiernan	Brian	Approve with no comments
1	LB#2 Vote	Approve with no comments	
41	Kitroser	Itzik	Abstain for lack of technical expertise
1	LB#2 Vote	Abstain for lack of technical	
42	Klein	Allan	Approve with no comments
	LB#2 Vote	Approve with no comments	- Approve with no comments
43	Klein	Jay	Approve with no comments
1	LB#2 Vote	Approve with no comments	- Approve with no confinents
	Kolze	Tom	Abstain for other reasons
1	LB#2 Vote	Abstain for other reasons	השאנמווו זטו טנוופו ופמאטווא -
		Demosthenes	Approve with no comments
	Kostas LB#2 Vote	Approve with no comments	Approve with no comments
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	Langley LB#2 Vote	John	Approve with no comments
Original	LD#Z VULE	Approve with no comments	_
47	Leiba	Yigal	Approve with no comments

A8 Lewis Disapprove with binding	Voter #	Last Name	First Name	Vote
49 Liebetreu John Approve with no comments 50 Lindh Lars Approve with non-binding comments 51 Lucas Fred Approve with no comments 52 Marin Scott Approve with non-binding comments 53 Marks Roger Approve with non-binding comments 54 McGregor Andy Approve with no comments 55 Meyer Ronald Approve with no comments 56 Middleton Andrew Approve with no comments 57 Monk Anton Approve with no comments 58 Myers Original LB#2 Vote Approve with no comments 58 Myers William Approve with no comments 59 Padan Uzi Approve with no comments 59 Padan Original LB#2 Vote Approve with no comments 60 Park Yunsang Approve with no comments 61 Petry Brian Approve with no comments 62 Petry Brian Original LB#2 Vote Approve with no comments 63 Ran Moshe Approve with non-binding Approve with non-binding Approve with non-binding comments Approve with non-binding Approve with no comments Approve with non-binding comments Approve with non-binding Appr	48	Lewis	Barry	Approve with non-binding comments
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63 Ran Moshe Approve with non-binding comments Original LB#2 Vote Approve with non-binding	62	Petry	Brian	Approve with no comments
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64 Reible Stanley Approve with no comments	Original	LB#2 Vote Approve	with non-binding	
	64	Reible	Stanley	Approve with no comments
Original LB#2 Vote Approve with no comments	Original	·		

Voter # Last Name	First Name	Vote
65 Resheff	Guy	Approve with no comments
Original LB#2 Vote Approve	with no comments	
66 Ribner	David	Approve with no comments
Original LB#2 Vote Approve	with no comments	_
67 Robinson	Eugene	Approve with no comments
Original LB#2 Vote Approve	with no comments	
68 Roehr	Walt	Disapprove with binding comments
Original LB#2 Vote Disappro	ve with binding	
69 Satapathy	Durga	Approve with non-binding comments
Original LB#2 Vote Approve	with non-binding	
70 Sater	Glen	Approve with no comments
Original LB#2 Vote Approve	with no comments	-
71 Scaringi	Vito	Approve with no comments
Original LB#2 Vote Approve	with no comments	
72 Schafer	David	Approve with no comments
Original LB#2 Vote Approve	with no comments	
73 Shahar	Menashe	Approve with no comments
Original LB#2 Vote Approve	with no comments	
74 Shirali	Chet	Approve with no comments
Original LB#2 Vote Approve	with no comments	
75 Stamatelos	George	Approve with no comments
Original LB#2 Vote Approve	with no comments	
76 Stanwood	Ken	Abstain for lack of time
Original LB#2 Vote Abstain f	or lack of time	
77 Thompson	Paul	Approve with no comments
Original LB#2 Vote Approve	with no comments	
78 Trinkwon	David	Abstain for lack of technical expertise
Original LB#2 Vote Abstain f	or lack of technical	
79 van Waes	Nico	Approve with no comments
Original LB#2 Vote Approve	with no comments	
80 Wachira	Muya	Approve with non-binding comments
Original LB#2 Vote Approve	with no comments	
81 Whitehead	Philip	Approve with non-binding comments
Original LB#2 Vote Approve	with non-binding	

Voter #	Last Name	First Name	Vote
82	Zeng	Chaoming	Approve with no comments
Original	LB#2 Vote Approve	with no comments	
83	Zuniga	Juan-Carlos	Approve with no comments
Original	LB#2 Vote Approve	with no comments	

2001/01					IEEE	802.16-01/04
IEEE 80	2.16 Recircu	ılation	Ballot #2a (2001-01-1	0 to 2001-01-20)		
Comment #	2a-1	Roger	Marks	Men	nber	
Type	Editorial		Starting Page Number	Starting Line Number	Section C	Global
Change						
In resolutio	n of Comment 3	, change	"TS/Central Station (CS)" to "	BTS/Central Station (CS)" and "TS/CS" to	"BTS/CS"
Reason						
the resoluti		terms us	e resolution to be identical to t sed in the resolution never ap · B.			
Comment #	2a-2	Roger	Marks	Men	nber	
Type	Editorial		Starting Page Number	Starting Line Number	Section C	Global
Change						
Change "C	S" to "BS" globa	lly, as pro	posed in Comment 3			
	uly distinguish th		"CS" is inconsistent. The def example, Table 4-1 uses "CS			
Comment #	2a-3	Muya	Wachira	Men	nber	
Type	Editorial		Starting Page Number	Starting Line Number	Section	
Change						
If possible s Reason According t	search for symbo	ols for oth	" to "Mbit/s" and was accepte er units for consistency with c 993, American National Stan Units, Table 3, the symbol fo	official IEEE usage. dard letter Symbol for Me		
Comment #	2a-4	Muya	Wachira	Men	nber	
Type	Editorial	'	Starting Page Number	Starting Line Number	Section \	arious editorial
Change						
-	n 13 Replace the	e word "F	Radio"with "Radiocommunicat	ions Sector"		
2.p 58 ln 16	replace "&" with	n "add"				
3. p 59 ln 20	6 Replace "Refe	r to the ne	ext section" with "Refer to the	section 7.1.2"		
4 p 60 ln 5	Use proper capti	on style.	In the table, use the same for	nt sizes in all cells for con	sistency, and cer	iter the text.
5. p 61 ln2 l Reason	In the column he	adings, m	nove "(m)" to the end of the te	xt to make clear that radi	o is not 2 meters	above clutter

Correct term

Jose Costa Member Comment # Editorial Starting Page Number 16 Starting Line Number 6 Section 3.2

Replace "rate" by "ratio"

I disagree with the resolution of Comment No. 29. The IEEE Standard Dictionary of Electrical and Electronics Terms (IEEE Std. 100-1996) defines Bit Error Ratio (BER) as follows: "The ratio of the number of bit errors to the total number of bits transmitted in a given time interval. BER may be measured directly by detecting errors in a known signal, or approximated from code violations or framing bit errors. Numerical values of error ratio should be expressed in the form n*10-p, where p is an integer greater than zero. When n is omitted, the implied value is 1". ITU-T Recommendation E.800 defines Bit Error Ratio (BER) as follows: "The ratio of the number of bit errors to the total number of bits transmitted in a given time interval." Recommendation ITU-R V.662-2 defines Bit Error Ratio (BER) as follows: "For a binary digital signal, the ratio of the number of errored bits received to the total number of bits received over a given time interval". Recommendation ITU-R V.663-1 explicitly deprecates the use of the term "rate" for expressing the proportion of errors in telecommunication and indicates that the term "ratio" should be used instead. hence, IEEE, ITU-T and ITU-R all coincide in Bit Error Ratio (BER).

2001/01/21 IEEE 802.16-01/04 IEEE 802.16 Recirculation Ballot #2a (2001-01-10 to 2001-01-20) Member Adrian 2a-6 Florea Editorial Starting Page Number 20 Starting Line Number 34 Section 4.2. Comment # 41 Change Remove recommendation #3 Reason The recommendation is unclear and redundant. According with the modified text, the recommendation here is that careful consideration be given to recommendations #9, #10, #11 and Section 6. Muya Wachira Member Comment # 2a-7 Editorial 21 Starting Line Number 24 4.2 Starting Page Number Section Change Make use of units for psfd consistent throughout the document. Currently we have dBW/MHz-m2, dBW/MHz/m2, dBw/MHz-m2, and dBW/MHz/m2. [sorry, exponents are not registering] I suggest we use (dBW/m2)/MHz, noting that ANSI-IEEE Std 260.1-1993 (section 4.3) and IEEE Std 280-1985(section 3.3) recommend the use of parentheses if more than one slash is used. Reason Consistency Michael Hamilton Member Comment # 2a-8 Technical, Binding Starting Page Number 24 Starting Line Number 1 Section 6.3.2.2 Type Change D/U = -5dB for adjacent channel D/U= -20 dB for second adjacent channel If the wording of the new text really is intended to indicate that the Undesired carrier level is 20 dB stronger than the Desired carrier, then the new proposal is a dramatic change from the old (although confusing) spec of 0 dB. It is not apparent how the proposed -20 dB D/U ratio is justified and it is a major design consideration. It is not clear how these levels are justitifed as "spillover" and if the proposed tolerance has been analyzed, or is intended to apply for all modulation types covered under the 802.16.1 proposal (e.g. 64 QAM).

Wachira Muva Comment # 2a-9 Editorial Starting Line Number 21 Type Starting Page Number 24 Section

Change

Change table number from "Table 4-1" to "Table 1", and change all other table numbers in the document to remove hyphenated

Check also Figure headings and notes for consistency with IEEE Style usage.

Reason

According to IEEE Standards style manual, hyphenated numbers shall not be used except in standards of considerable length. At any rate, we have to be consistent with the figures numbering style, which does not use hyphens.

Roger Marks Member Comment # 2a-10 Editorial 28 Starting Line Number 4 Section 5.2 Starting Page Number

Change

Ensure that lines 3-15 include no definitions but simply refer to the introductory clauses.

To avoid the possibility of inconsistencies in with the definitions.

Member Muva Wachira 2a-11 Comment # Editorial Starting Page Number Starting Line Number 23 Section 5.3.1.2 Type

Change

Replace "section 5.2.1 with the correct reference.

Reason

Section 5.2.1 does not exist.

Barry Lewis Comment # 2a-12 Editorial Starting Page Number 42 Starting Line Number 7 Section 6.1.3.1 Type

Change

Delete "CEPT/".

Reason

CEPT is a separate body to ETSI. Deletion improves accuracy of text.

2001/01/ EEE 80		lation I	Ballot #	#2a (2001	-01-1	0 to 2001-01-2	0)	IEE	E 802.16-01/04
Comment #	2a-13	Barry		Lewis			Member		
Type	Editorial		Starting F	Page Number	42	Starting Line Numb	er 7	Section	 6.1.3.1
	Lattorial		otarting i	age Humber	72	Ottaining Line Humb		Section	0.1.0.1
hange	vord "Draft" on li	nos 7 and	1 1 1						
Reason	void Diait on ii	nes / and	J 14.						
	has completed	the ETSI	processe	s and is ther	efore r	no longer a draft. Acc	curacy im	proved.	
Comment #	2a-14	Robert		Whiting			Observe	r	
Type	Technical, Non-	-bindina	Starting F	Page Number	49	Starting Line Numb	er 1	Section	6.2.2.1.2
hange	,	3				· ·			
Modify figur Reason The purpos		n curve is	to ensure	e adequate c	overaç	inimum curve at -90			-180 degrees. from -90 degrees to -180
Comment #	2a-15	Walt		Roehr			Member		I
Type	Technical, Bind	1	Ctarting [Page Number	67	Starting Line Numb	er 2	Section	Table 8-1
hange	recrimear, bind	mg	Starting F	age Number	07	Ottaiting Line Humb	C. Z	Section	Table 0-1
ınfortunate	ly I tied it to first p	place 60 l	km was m	nentioned, in	vain h	essence of my NO ope that change wo "tone" is wrong else	uld ripple	through do	ocument. It appears that
Comment #	2a-16	Walt		Roehr			Member		
Type	Editorial		Starting F	Page Number	67	Starting Line Numb	er 2	Section	Table 8-1
hange			_	•		-			
	S" to "Hub" throu	ghout tab	le (5th co	l).					
Reason					•	out table (3rd col, ro)	
nternai con	isistency within ta	abie. Teri	ms "nub"	and adjacen	t area,	same freq " clearer.			
Comment #	2a-17	Muya		Wachira			Member		
Type	Editorial		Starting F	Page Number	67	Starting Line Numb	er 2	Section	Table 8.1
hange									
	7, and 8 insert " ne font in column				S				
)In rows 10	0-13 correct use	the same	format of	"Monte Carl	o"as u	sed in rows 2-4			
Reason tem 1 will a	add clarity. Other	items wil	l add cons	sistency					
Comment #	2a-18	Muya		Wachira			Member		

Type Editorial Starting Page Number 76 Starting Line Number 3 Section 9.10.2

Change

1)Place the figure caption below the figure. Make same change globally if applicable.

2)Line 23 Change number for equation from 5 to 7. In the Annexes start with new series of equation numbering e.g. page 82 line 7, equation 7 becomes equation B-1

If possible also use equation editor for equations.

- 1)Normal editing practice.
- 2) Equation 5 is misplaced. There is an eq 6 on page 60.

2001/01/21 IEEE 802.16-01/04

IEEE 802.16 Recirculation Ballot #2a (2001-01-10 to 2001-01-20)

Comment #	2a-19	Muya		Wa	achira					Member		
Type	Editorial		Starting	Page	Number	81	Starting	Line	Numbe	r 1	Section	A.2
Change												
Replace "se	ection 3.1.3" with	the corre	ct refence	Э.								
Reason												
Section 3.1	.3 is a definition	not discu	ssion									
Comment #	2a-20	Barry		Le	wis					Member		
Type	Editorial	'	Starting	Page	Number	81	Starting	Line	Numbe	r 17	Section	Annex A
Change												
	sub-section: ean Conformance	e Test Sta	andards									
Wireless Ac Part 1: "Poi Part 2 cove Part 3 cove Part 4 cove Part 5 cove Additionally	ccess equipment. nt to Multipoint e rs FDMA equipm rs TDMA equipm rs Frequency Ho rs Direct Sequen drafting activity o	EN301-1 quipment nent. ent. opping CD nce CDMA on a part	26-2-1 to ; Definition DMA equi A equipm 6 is com	pmer ent. plete	titled "Fix and Gene ant. catering	ked Ra eral Red	dio Syste quiremen ulti-Carrie	ms; ts" r TD	Confori MA equ	mance T	esting;", ha	cedures for Fixed as the following parts:
Copies of tr	ne published star	idards are	e avaliad	ie ior	downloa	ad iron	i the ETS	oi vve	ed Site.	•		
Reason												

Useful supplementary information in the Annex relating to Conformance Testing

Comment #	2a-21	Muya	Wachira				Member		
Type	Editorial	Starting I	Page Number	94 \$	Starting Line	Number	7	Section	C.8
Change									
Replace "(c	lerived in an earli	er section of this d	ocument)" w	th "(deriv	ed in Annex	B of th	nis docu	ment)"	
Reason									
Precision of	f reference								
Comment #	2a-22	Muya	Wachira				Member		
Type	Technical, Non-	binding Starting I	Page Number	95	Starting Line	Number	27	Section	C.9

Change

Add some clarifying text to explain the assumed antenna cross-section area in arriving at the value -144 dBW/MHz and explain that this is a power spectral density is to avoid misunderstanding.

Insert in section 3.1 a definition of power spectral density as:

power spectral density (psd): The average power per specified bandwidth. It is expressed in units [power/bandwidth] such as Watts/Hz, Watts/MHz, dBW/MHz, etc.

Since the numerical value of psfd and psd used on different pages is the same, it can lead to misunderstanding if not clarified. On page 84 ln12-13 we start with a trigger pfd (psfd) level of -114 dBW/MHz/m2 ,which was derived in Annex B. When we come to p94 ln7, we use the same value of -114 dBW/MHz/m2.

IEEE 802.16 Recirculation Ballot #2a (2001-01-10 to 2001-01-20)

Comment #	2a-23	Barry	Lewis		Member		
Type	Editorial	Starting Pa	age Number 1	06 Starting Line Numl	per 15	Section	D.16

Change

Replace the text in section D.16 (sic) with the following:

"D.16 Radio Advisory Board of Canada (RABC)

The Radio Advisory Board of Canada (RABC) has also conducted technical studies dealing with operator-to-operator co-ordination issues. A paper was issued as an input to the Industry Canada regulation.

This paper entitled "RABC Pub. 99.2: RABC Study Leading to a Coordination Process for Systems in the 24, 28 and 38 GHz Bands recommends a coordination process using the distance as first trigger and two spectral pfd levels that trigger different actions by the operators.

If the boundary of two service areas is within 60 km of each other, then the co-ordination process is invoked. Two spectral pfd levels are proposed for co-ordination. The first one, level 'A', represents a minimal interference scenario where either licensed operator does not require co-ordination. A second level, 'B', typically 20 dB higher than 'A', represents a trigger for two possible categories: if the interference is above A but below B, then co-ordination is required with existing systems only. If the interference is greater than level B, then co-ordination is required for both existing and planned systems. The table below summarises spectral pfd levels A and B for the three frequency bands.

Frequency Band (GHz)	spectral pfd Level A	spectral pfd Level B
	(dBW/m2 in any 1 MHz)	(dBW/m2 in any 1 MHz)
24	-114	-94
28	-114	-94
38	-125	-105

The much lower spectral pfd levels at 38 GHz are to ensure protection to point-to-point systems (allowed in this band in Canada). The coordination procedure is graphically summarized in the figure at the end of Annex F.

The paper can be found at http://www.rabc.ottawa.on.ca/english/pubs.cfm and shows how the values were derived."

Reason

Resolution of comment 132 did not agree to delete clause D.16 (sic) but to complete the section with appropriate text.