IEEE 802.16-01/01

Comment Resolutions for Approval in IEEE 802.16 Recirculation Ballot #2a (2001-01-10 to 2001-01-20)

	00			Approvaria				10 10 2001 01 20)
Comment #	1	Comment s	submitted by:	Roger	Marks		Member	
Туре	Editori	al	Starting Pag	ge Number	Starting Line Num	ber Section	Global	
Balloter's S	uggested	Change:						
Change "N								
Balloter's F								
		al unit usage.						
		Ŭ	_					
Recommend	dation: A	ccepted	Recomme	ndation by: Phil	Whitehead			
Proposed F	Resolution							
Reason for	Becomm	endation:						
	neconiii							
		a		Berry	Mada		Mombor	
Comment #	2		submitted by:	Roger	Marks		Member	
Туре	Editori	al	Starting Pag	ge Number	Starting Line Num	ber Section	Global	
Balloter's S	uggested	Change:						
Subscript t	he "o" in	"Bo" globally.						
Balloter's F	Reason:							
Consistend	cy and e	ditorial improvem	ənt.					
Recommend	lation: A	ccepted	Recomme	ndation by: Phil	Whitehead			
Proposed F	resolution							
Reason for	Recomm	endation:						
Comment #	3	Comment s	submitted by:	Roger	Marks		Member	
Туре	Editori		Starting Pag	-	Starting Line Num	ber Section	Global	
			Starting Fag	ge Number		Section	Ciobai	
Balloter's S								
wake the i	ollowing	global changes:						
"Base Trar	sceiver	Station" to "Base	Station"					
"Subscribe	r Transc	eiver Station" to '	Subscriber S	Station"				
"BTS" to "E								
"STS" to "S "CS" to "B								
"Hub" to "E								
		when referring to	Subscriber	Station}				
"TS" to "SS		-						
"RPTS" to								
"RTS" to "F "BTS/Cent		on (CS)" to "BS"						
"BTS/CS" 1								
According	y:							
Change D	afinition	3.1.3 to "base stat	tion (BS)"					
-		3.1.31 to "subscri		SS)"				
and delete	these Ac	cronyms: CS, RTS	3, RPTS, TS.					
Balloter's F	Reason:							
Simplificati	on, clarit	y, self-consistend	y, and consis	stency with 802.	.16.1.			
Bacamman	dation: A	ccepted-Modified	Recomme	ndation by: Phil	Whitehead			
Proposed P			appondioos) y	which are not or	tracte from externa	I documente harmon	ise the use of terms and	acronyme as follows:
		Station" to "Base		which are not ex	diacts nom externa	i documents, narmon	ise the use of terms and	acronyms as follows.
		ceiver Station" to		Station"				
"BTS" to "I								
"STS" to "								
"Hub" to "E "Sub" to "Sub"		when referring to	o Subscriber	Station				
"TS" to "S			Jourschinel	otationy				
"RPTS" to								
"RTS" to "I		(00)						
		n (CS)" to "BS"						
"TS/CS" to	00							
Reason for	Recomm	endation:						
								o be problematic. There are

several extracts from other documents, using different terms from those in IEEE 802.16. Thus, we have to keep these alternative terms in our document and relate them to the preferred IEEE terms. Also, in some cases a CS is not the same as a BS (e.g. page 28 line 5). The definition of a base station and a subscriber station need to remain linked to the various different acronyms found in quoted external documents.

Comment #	4	Comment s	ubmitted by:	Roger	Marks		Member	
Туре	Editorial		Starting Pa	age Number	Starting Line Number	Section	Global	
Balloter's S	Suggested Cha	ange:						
Change "c	o-existence"	to "coexisten	ce" globally					
Balloter's F	Reason:							
	y of spelling							
Recommend	dation: Accep	ted	Recomm	endation by: Ph	il Whitehead			
Proposed F	Resolution:							
Deces for	Desember	41 a						
dictionary	r Recommenda agrees							
Comment #	5	Comment s	ubmitted by:	Roger	Marks		Member	
Туре	Editorial			age Number	Starting Line Number	Section	Global	
	Suggested Cha	ange:						
		o "coordinatio	on" everywh	ere.				
Balloter's F	Reason:							
consistenc	y of spelling							
Recommend	dation: Accep	ted	Recomm	endation by: Ph	il Whitehead			
Proposed F	Resolution:							
Reason for	Recommenda	ation:						
dictionary								
Comment #	6	Comment s	ubmitted by:	Roger	Marks		Member	
	~							
Туре	Editorial		Starting Pa	age Number <mark>1</mark>	Starting Line Number 5	Section	Title	
Balloter's S	Editorial		Starting Pa	age Number 1	Starting Line Number 5	Section	Title	
Balloter's S	Editorial		Starting Pa	age Number <mark>1</mark>	Starting Line Number 5	Section	Title	
Balloter's S Change titl	Editorial Suggested Cha le from:	ange:			Starting Line Number 5	Section	Title	
Balloter's S Change titl Recommer	Editorial Suggested Cha le from:	ange:				Section	Title	
Balloter's S Change titl Recommento:	Editorial Suggested Cha le from: nded Practica	ange: e for Coexiste	nce of Broa	dband Wireless	Access Systems	Section	Title	
Balloter's S Change titl Recommento:	Editorial Suggested Cha le from: nded Practica	ange: e for Coexiste	nce of Broa	dband Wireless		Section	Title	
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Balloter's S Change titl Recommento: Recommento: Need to al:	Editorial Suggested Cha le from: Inded Practice Inded Practice so update Pa	ange: e for Coexiste e for Coexiste	ence of Broa	dband Wireless	Access Systems	Section	Title	
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Comment #	7	Comment	submitted by:	Roger		Marks				Member	
Туре	Editorial			age Number	1	Starting Line Nur	nber 9		Section	Title Page	
Balloter's Si	uggested Cha	nge:									
Delete sent	tence on Line	es 9 and 10	; replace with	:							
Sponsor	Standards C	ommittoo									
of the	Stanuarus Ci	ommittee									
IEEE Comp	outer Society										
Balloter's R											
Recommend	ation: Accep	ted	Recomm	endation by	Phil	Whitehead					
Proposed R	esolution:										
Reason for	Recommenda	tion:									
Comment #	8	Comment	submitted by:	Roger		Marks				Member	
Туре	Editorial		Starting Pa	age Number	1	Starting Line Nur	nber 1	1 :	Section	Title Page	
Balloter's S	uggested Cha	nge:									
Add Abstra	ct and Keywo	ords. As as	starting point,	the Abstra	ct can l	be developed from	n Lines	\$ 10-14	of Page	e 2:	
addressed, covers freq	and recomn uencies of 10	nended eng 0-66 GHz in	ineering practing general,but i	tices provid t is focused	e guida on 23.	ance for system of	design,	deplo	yment, c	oordination, and freque	ent coexistence issues are ncy usage. This document ould allow a wide range of
Balloter's R	leason:										
IEEE format	t.										
Recommend	ation: Accep	ted-Modified	Recomm	endation by	Phil	Whitehead					
"Abstract: T frequency r	text after line This recomm range 10 to 6	ended prac 6 GHz, with		cus on the i							systems operating in the les guidance for system design,
			ien start a nev id wireless ac			point, radio"					
	e line space Idards Depar		inuing the tex	t:							
Reason for	Recommenda	tion:									
Note: More	keywords cou	ld be added									
										Manakar	
Comment #	9 Editorial	Comment	submitted by:	-	0	Marks Starting Line Nur	bor C			Member	
Type	Editorial		Starting Pa	age Number	2		ibei 0		Section	Intro	
Delete Line	uggested Cha es 6-8.	nge:									
Balloter's R	leason:										
	ry and unim	portant.									
Recommend	ation: Accep	ted	Recomm	endation by	Phil	Whitehead					
Proposed R	esolution:										
Reason for	Recommenda	tion:									

2001-01	-10								IEEE 802.16-01/01
Comment #	10	Comment su	ubmitted by:	Roger	Marks			Member	
	Editorial				Starting Line Number	12	Section	1	
Туре	Eulional		Starting Pag	ge Number 2		10 8	Section	1	
Balloter's	Suggested Chan	ge:							
Change lir	nes 10-17 to:								
This Daws				•	textended and the floor of the	ب المعدم بالد م		Deutin	
									ent coexistence issues are ncy usage. This document
									ould allow a wide range of
					utual interference.	ou ogu.			
Balloter's									
Editorial c									
Eulional C	lainty.								
Recommen	dation: Accepte	d-Modified	Recomme	endation by: Phi	I Whitehead				
Proposed	Resolution:								
	r Recommendation								
It is assur	ned that the cor	mment refers	s to the Intro	duction rather th	han to section 1.				
		. .		Design	Mada			Member	
Comment #		Comment st	ubmitted by:	Roger	Marks			Member	
Туре	Editorial		Starting Pag	ge Number <mark>3</mark>	Starting Line Number	4 s	Section	Participants	
Balloter's	Suggested Chan	ge:							
Replace L	ines 4-5 with:								
				•	up on Broadband Wire	ess Acces	ss, which	n is responsible for Wire	less Metropolitan Area Network
(Wireless	MAN[TM]) Stan	dards and R	ecommende	d Practices.					
At the time	the draft of thi	e etandard r	assod Work	ring Group Lette	ar Ballot the IEEE 802	16 Workin	a Group	on Broadband Wireless	s Access had the following
Officers:		s stanuaru p	asseu work	ing Group Lette			ig aloup		S Access had the following
0									
Roger Ma	rks, 802.16 Cha	air							
Brian Kier	nan, 802.16 Vie	ce Chair							
J. Scott M	arin, 802.16 Se	cretary							
						0			
LOUIS OISE	en served as vi	ce Chair dui	ing the initia	a development	of this document, until	Septembe	er 2000.		
At the time	the draft of thi	s standard r	assed Work	ing Group Lette	ar Ballot the IEEE 802	16 Workin	ng Group	on Broadband Wireless	s Access had the following
members:		o otandara p		ing aroup Lotte			ig aloup		house had the following
Balloter's	Reason:								
IEEE form	at.								
-			Decement	ndation hus Dhi	L. Whitehead				
Recommen	dation: Accepte	a	Recomme	endation by: Phi	i whitehead				
Proposed	Resolution:								
D	. De como de la								
Reason to	r Recommendatio	on:							
Comment #	12	Comment su	ubmitted by:	Roger	Marks			Member	
Туре	Editorial		Starting Pag	ge Number <mark>4</mark>	Starting Line Number	3 s	Section	Acknowledgments	
	Suggested Chan	ne:						Ŭ	
			vinante" sect	ion. Insert the fo	ollowing text:				
wove uns	Section to beion	e ine Failio	ipants sect	ion. Insert the to	bilowing text.				
This docu	ment was devel	oped by the	IEEE 802.10	6 Working Grou	p on Broadband Wirel	ess Access	s. primar	ilv by its Task Group 2.	At the time the draft of this
					k Group 2 were:		- / [y . y	
	assed Working	Group Lette	er Ballot, the						
	bassed Working	Group Lette	er Ballot, the						
Philip Whi	bassed Working tehead, Task G	•							
	Ū	iroup 2 Chai	r						
Rémi Cha	tehead, Task G yer, Task Grouj	iroup 2 Chai o 2 Vice Cha	r iir						
Rémi Cha J. Leland I	tehead, Task G yer, Task Group Langston was t	iroup 2 Chai o 2 Vice Cha	r iir	? Chair, from Ma	ay 1999 until July 2000	. Subsequ	uently, A	ndy McGregor served a	s Task Group 2 Chair until
Rémi Cha	tehead, Task G yer, Task Group Langston was t	iroup 2 Chai o 2 Vice Cha	r iir	? Chair, from Ma	ay 1999 until July 2000	. Subsequ	uently, A	ndy McGregor served a	s Task Group 2 Chair until
Rémi Cha J. Leland I November	tehead, Task G yer, Task Grouj Langston was t ⁻ 2000.	iroup 2 Chai o 2 Vice Cha he original T	r iir ask Group 2	·					
Rémi Cha J. Leland I November Muya Wad	tehead, Task G yer, Task Grouj Langston was t ⁻ 2000. chira served as	aroup 2 Chai o 2 Vice Cha he original T Technical E	r lir ask Group 2 ditor of this	document, begi		Earlier, V	/ito Scar		s Task Group 2 Chair until nnical Editor, bringing the
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Comment #	13	c	Comment s	ubmitted by:	Roger		Marks			Member	
Туре	Edit	torial		Starting Pa	ge Number	5	Starting Line Numbe	r 1	Section	Contents	
		ted Changes of Contents'		ents"							
Balloter's			10 0011								
IEEE form		1:									
		Accented		Becomme	endation by:	Phil W	hitebead				
Proposed		Accepted		necomme	sindation by.		intenedu				
Floposeu	nesolut										
Reason fo	r Reco	mmendation	:								
										Manahan	
Comment #				ubmitted by:		10	Lewis	0.0		Member	
Туре		hnical, Bind		Starting Pa	ge Number	10	Starting Line Numbe	28	Section	1.1	
		ted Change:		· "The recom	mendation	s have l	neen developed ar	nd substa	antiated by	analysis and simulation	ns specific to the deployment
										en operators licensed fo	
Balloter's	Reason	1:									
To reinford	ce the I	basis of the	e Recomn	nendations a	nd ensure t	hat the	context of the work	is not o	pen to mis	-interpretation.	
Recommen	dation:	Accepted		Recomme	endation by:	Phil W	hitehead				
Proposed	Resolut	tion:									
D											
Reason to	or Reco	mmendation									
0	15		Commont o	ubmitted by:	Barny		Lewis			Member	
Comment #		torial	Johnnent s		ige Number	10	Starting Line Numbe	43	Section	1.1	
Type			_	Starting Pa	ige Number	10		40	Section	1.1	
		ted Change: ng final sen									
Balloter's			iteriee.								
		•									
The docur	nent w	as based c	on conside	erable input f	from source	es other	than just 802.16.1				
			on conside				than just 802.16.1				
Recommen	dation:	Rejected	on conside		from source endation by:						
Recommen Proposed	idation: Resolut	Rejected			endation by:						
Recommen Proposed	idation: Resolut	Rejected		Recomme	endation by:						
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Recommen Proposed Use amer Reason fo	ndation: Resolut nded te	Rejected tion: ext describe	ed in reso	Recomme	endation by: nment 16.	Phil W					
Recommen Proposed Use amer Reason fo	ndation: Resolut nded te	Rejected tion: ext describe	ed in reso	Recomme	endation by: nment 16.	Phil W	hitehead				
Recommen Proposed Use amer Reason fo	dation: Resolut nded te or Reco I text ra	Rejected tion: ext describe mmendation: ather than d	ed in reso : leletion re	Recomme	endation by: nment 16.	Phil W	hitehead			Member	
Recommen Proposed Use amer Reason fo Amended Comment #	dation: Resolut nded te or Reco I text ra	Rejected tion: ext describe mmendation: ather than d	ed in reso : leletion re	Recomme lution of Con flects better ubmitted by:	nment 16.	Phil W	hitehead		Section	Member 1.1	
Recommen Proposed Use amer Reason fo Amended Comment # Type	edation: Resolut anded te r Record I text ra	Rejected tion: ext describe mmendation: ather than d	ed in reso deletion re comment s	Recomme lution of Con flects better ubmitted by:	andation by: nment 16. the Purpose	Phil W	hitehead nent in the PAR. Marks		Section		
Recommen Proposed Use amer Reason fo Amended Comment # Type Balloter's	edation: Resolut nded te r Recol l text ra f 16 Edit Suggest	Rejected tion: ext describe ather than d corial	ed in reso deletion re comment s	Recomme lution of Con flects better ubmitted by:	andation by: nment 16. the Purpose	Phil W	hitehead nent in the PAR. Marks		Section		
Recommen Proposed Use amer Reason fo Amended Comment # Type Balloter's Change se	r Recolut nded te r Recol l text ra f 16 Edit Suggest entence	Rejected tion: ext describe ammendation: ather than d torial ted Changes te in Lines 4	ed in reso deletion re Comment s 43-44 to:	Recomme lution of Con flects better ubmitted by: Starting Pa	endation by: nment 16. the Purpose Roger ge Number	Phil W	hitehead nent in the PAR. Marks Starting Line Numbe	r 43		1.1	ange of broadband wireless
Recommen Proposed Use amer Reason fo Amended Comment # Type Balloter's Change se	r Recolut nded te r Recol l text ra f 16 Edit Suggest entence	Rejected tion: ext describe ammendation: ather than d torial ted Changes te in Lines 4	ed in reso deletion re Comment s 43-44 to:	Recomme lution of Con flects better ubmitted by: Starting Pa	endation by: nment 16. the Purpose Roger ge Number	Phil W	hitehead nent in the PAR. Marks Starting Line Numbe	r 43		1.1	ange of broadband wireless
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2001-01	-10										IEEE	802.16-01/01
Comment #	17		Comment	submitted by:	Jose	Co	sta			Member		
Туре	Edito	rial		Starting Page	ge Number <mark>1</mark>	1 Start	ing Line Numbe	r 16	Section	3.1		
Balloter's S	Suggeste	d Chan	ige:									
the same t	erm is i	n both,	the definiti	on from the IT	U-R Recomm	nendation	should be use	ed as far	as possible	99 "Vocabulary of tern e. The definitions of ' ent 802.16I-00/40 for	wireless acces	s" and "fixed
Balloter's I												
To maintai	n consi	stency	with global	standards.								
Recomment	dation:	Accepte	ed-Clarified	Recomme	endation by: P	aul Thom	oson					
Proposed F			t the end of	the contoned	. "Proodbond	wireless		y hoo oo	nnoction of	anabilitian bighar that	the Drimery P	Poto "
Page 16, I	Line 41	Repla	ce "Duplex	ing"" with "Du "Networks" wi	plex";	i wireless		y nas coi		apabilities higher thar	n ne i ninary n	
Add defini	tion of '	fixed w		ess" as "Wire			core networks. In in which the		of the end-	user termination and	the network ac	cess point to be
(Additiona	l chang	es to th	ne definitior	is were made	as a result of	f Commer	nt 26.)					
Reason for	Recom	mendati	on:									
Note: We s	hould a	lso defi	ne "fixed br	oadband wirele	ss access".							
Comment #	18		Comment	submitted by:	Roger	Ma	rks			Member		
Туре	Edito	rial			ge Number 1		ing Line Numbe	r 26	Section	3.1		
Balloter's S			ige:									
Modify def	initions	to mate	ch those us	ed by 802.16.	.1:							
3.1.3 base	station	(BS): /	A generaliz	ed equipment	set providing	connecti	vity, managen	ient, and	l control of	the subscriber station	า.	
3 1 31 sub	scriber	station	(SS): A de	neralized equ	inment set n	rovidina c	onnectivity be	tween si	ibscriber e	quipment and a BS.		
					· · ·	Ũ	officerity be	ween so		quipment and a bo.		
3.1.8 dowr	nink: A	TIOW OI	Information	n that exists ir	n the downstre	eam.						
3.1.34 upli	nk: A fl	ow of i	nformation	that exists in t	he upstream.							
Also, add t	wo defi	nitions	:									
3.1.8 dowr	nstream	: The d	lirection from	m a BS to the	SS.							
3 1 34 uns	tream	The dir	ection from	a SS to the E	s							
0.1.04 upo	action.	ine an										
Balloter's I	Reason:											
Consistend	cy withi	n 802.1	6, and con	npleteness.								
Recommen	dation:	Accepte	ed-Modified	Recomme	endation by: P	aul Thom	oson					
Proposed F			lass Dava	11 1 2 2 2 3								
"A genera	lized ec	uipmei	nt set provi	•	/ity, managen		control of the oviding connect			; scriber equipment and	l a Base Statio	ın."
Modify def	initions	of "upl	ink" and "d	ownlink" as in	comment.							
Add defini	tions fo	r down	stream and	upstream as	in comment a	as new se	ctions 3.1.9 a	1d 3.1.36	6, but spell	out acronyms in defir	nitions.	
Reason for	Recom	mendati	on:									
Comment #	19		Comment	submitted by:	Roger	Ma	rks			Member		
Туре	Edito	rial			ge Number 1	1 Start	ing Line Numbe	r 26	Section	3.1		
Balloter's S	Suggeste	d Chan	ige:									
set all defi	ned teri	ns in u	ppercase									
Balloter's I												
self-consis				Deserve	adation by P	aul Theo						
Recomment Proposed F			ed-Modified	Recomme	endation by: P	aui inomi	1500					
			ower-case,	with the exce	ption of acror	nyms. Sta	rt on p11 In18	instead	of p11 In26	6.		

Reason for Recommendation:

20	N1	_0	1_1	0
20	υı	-υ		

Comment #								
	20	Comment su	ubmitted by:	Adrian	Florea		Member	
Туре	Technical, Bi	nding	Starting Pag	<mark>ge Number</mark> 12	Starting Line Numbe	3 Section	3.1.6	
Balloter's S	uggested Chang	e:						
Replace the	e XPD definition	n with:						
		-	rection is the	e difference in c	B between the peak of	opolarized gain o	f the antenna and the cr	oss-polarized gain of the
	the given direc	uon.						
Balloter's R	leason:							
Recommend	ation: Accepted	1	Recommen	ndation by: Pau	l Thompson			
Proposed R	esolution:							
Reason for	Recommendatio	n:						
Comment #	21	Comment su	ubmitted by:	Lars	Lindh		Member	
Туре		on-binding	Starting Pag	ge Number 12	Starting Line Numbe	9 Section	3.1.7	
	uggested Chang							
Change :								
"Digital mod	dulation is the p	process of v	arying one o	r more parame	ters of a carrier wave	as a function of tw	o or more finite and disc	crete states of a signal".
Balloter's R								
								he modulator is usually driven by ital modulation is the process of
					f two or more finite an			ital modulation is the process of
				6 14				
Here the w	ord "function" w	/III take into	account any	filtering proces	sses and it is not impli	ed that the state of	of the carrier will change	discretely.
Recommend	ation: Accepted	I-Modified	Recommen	ndation by: Pau	l Thompson			
Proposed R	esolution:							
	Specific change		de el fellessione					
	age 12, Lines 9 dulation is the				eters of a carrier wave	(e.g., frequency,	phase, amplitude or com	binations thereof) as a function
	ore finite and						р, тр тр	· ···· · · · · · · · · · · · · · · · ·
Reason for	Recommendatio	n:						
Comment #	22	Comment su	ubmitted by:	Walt	Roehr		Member	
Comment #	22 Editorial	Comment su	ubmitted by: Starting Pag		Roehr Starting Line Numbe	11 Section		
Туре	Editorial			Walt ge Number 12	Roehr Starting Line Numbe	11 Section	Member 3.1.7	
Туре	Editorial uggested Chang					11 Section		
Type Balloter's S delete "stat	Editorial uggested Chang e for"					11 Section		
Type Balloter's S delete "stat Balloter's R	Editorial uggested Chang e for"	e:	Starting Pag			11 Section		
Type Balloter's S delete "stat Balloter's R the carrier i	Editorial uggested Chang e for" leason: is changed, it's	e: state isn't c	Starting Pag		Starting Line Numbe	11 Section		
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	IEEE 802.16-01/01
Comment # 24 Comment submitted by: Adrian Florea Member	
Type Technical, Non-binding Starting Page Number 12 Starting Line Number 41 Section 3.1.15	
Balloter's Suggested Change:	
Insert: with the purpose to increase the network traffic capacity.	
Balloter's Reason:	
Recommendation: Accepted-Modified Recommendation by: Paul Thompson	
Proposed Resolution:	
Add at the end of 3.1.15: "for the purpose of increasing network traffic capacity."	
Reason for Recommendation:	
Comment # 25 Comment submitted by: George Fishel Member	
Type Editorial Starting Page Number 13 Starting Line Number 9 Section 3.1.17	
Balloter's Suggested Change:	
Change the" to "that"so sentence reads correctly"	
Balloter's Reason:	
Sentense is not correct as it is.	
Recommendation: Accepted-Modified Recommendation by: Paul Thompson	
Proposed Resolution:	
Replace the entire second sentence with:	
"For FDD systems, this implies that each operator's base station transmits in adjacent frequency sub-blocks and that the	ir terminals transmit in the
corresponding paired sub-blocks."	
Reason for Recommendation:	
Comment # 26 Comment submitted by: Philip Whitehead Member	
Comment # 26 Comment submitted by: Philip Whitehead Member Type Technical, Non-binding Starting Page Number 13 Starting Line Number 27 Section 3.1.21	
Balloter's Suggested Change:	
Delete "single base station" and replace with "system" on line 27 and delete "of the base station" on line 28.	
Balloter's Reason:	
ITU definition of multipoint is more general and includes both PMP and MP-MP architectures.	
Recommendation: Accepted-Modified Recommendation by: Paul Thompson	
Proposed Resolution:	
Augment with definition from ITU 1399. Specific changes:	
Replace Page 13, Lines 27-30 with the following:	
"A generic term for Point-to-Multipoint and Multipoint-to-Multipoint and variations/hybrids of these. Multipoint is a wireless service to multiple subscribers located within the coverage area and the subscribers are in geographically different located within the coverage area and the subscribers are in geographically different located within the coverage area and the subscribers are in geographically different located within the coverage area and the subscribers are in geographically different located within the coverage area and the subscribers are in geographically different located within the coverage area and the subscribers are in geographically different located within the coverage area and the subscribers area in geographically different located within the coverage area and the subscribers area in geographically different located within the coverage area and the subscribers area in geographically different located within the coverage area and the subscribers area in geographically different located within the coverage area and the subscribers area in geographically different located within the coverage area and the subscribers area in geographically different located within the coverage area and the subscribers area in geographically different located within the coverage area area area area.	
sharing of resources may occur in the time domain, frequency domain,or both."	
Page 14, Line 24 add the following definition:	
"Point-to-Multipoint A system that establishes connections between a single specified point and more than one other sp	
topology wherein a Base Station simultaneously services multiple, geographically separated Subscribers and each Su only one Base Station."	
topology wherein a Base Station simultaneously services multiple, geographically separated Subscribers and each Su only one Base Station."	
topology wherein a Base Station simultaneously services multiple, geographically separated Subscribers and each Su	
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Comment #	28	Comment s	ubmitted by:	Roger	Marks		Member	
Туре	Editorial		Starting Pa	ige Number 16	Starting Line Number	3 Section	3.2	
Balloter's	Suggested Cha	inge:						
Change "A	djCH" to "Ad	jCh" (Line 3)						
Change "C	CoCH" to "Co	Ch" (Line 23)						
Balloter's	Reason:							
Consisten	cy.							
Recommen	dation: Accep	ted	Recomme	endation by: Pa	aul Thompson			
Proposed	Resolution:							
Reason fo	r Recommenda	ition:						
Comment #	29	Comment s	ubmitted by:	Jose	Costa		Member	
Туре	Editorial		Starting Pa	ige Number 16	Starting Line Number	6 Section	3.2	
	Suggested Cha							
	ate" by "ratio'	1						
Balloter's	Reason: atio, not a rate	2						
			Bacomm	endation by: Pa	ul Thompson			
Proposed	dation: Reject	leu	neconnik	endation by. Te	an monpson			
Floposed	nesolution.							
	r Recommenda		pressed as	a ratio (e.g., on	e part in 10 to power 6),	L believe that the	common definition of "B	ER" is "Bit Error Bate "
Willie 100		T IS USUAITY CA	pressed as i		ie part in to to power o),	T believe that the		En 13 Dit Enormate.
							Manahan	
Comment #		Comment s	ubmitted by:		Freedman	24	Member	
Type Ballataria	Editorial Suggested Cha		Starting Pa	ige Number 16	Starting Line Number	24 Section	3.2	
		DM" to "Code	d OFDM"					
Balloter's								
		for Coded OF	DM. All OF	DM systems a	re coherent.			
Recommen	dation: Accep	ted	Recomme	endation by: Pa	aul Thompson			
Proposed	Resolution:							
Reason fo	r Recommenda	ition:						
Comment #	31	Comment s	ubmitted by:	Avraham	Freedman		Member	
Туре	Editorial		Starting Pa	ige Number 16	Starting Line Number	28 Section	3.2	
Balloter's	Suggested Cha	ange:						
Insert :	Sepretion in	relevant conte	avt)					
Balloter's			57()					
		ars as Channe	el Sepration	in p. 42				
	dation: Accep			endation by: Pa	aul Thompson			
Proposed								
Page 16,	Line 28 shou	ld change to:						
"CS Centi	al Station (C	hannel Separ	ation in Sec	tion 6.1.3.1 on	ly.)"			
	<mark>r Recommenda</mark> principle bu	<mark>ition:</mark> t not in specifi	ic recomme	ndation				
Note: com	ment is taker	n to have mea	nt p.43, not	p.42.				

Comment # 32 Comment submitted by: Roger Marks Member	
Type Editorial Starting Page Number 16 Starting Line Number 36 Section 3.2	
Balloter's Suggested Change:	
Change "ElectroMagnetic" to "ElectroMagnetic" (Lines 36 and 37).	
Balloter's Reason:	
spelling correction	
Recommendation: Accepted-Clarified Recommendation by: Paul Thompson	
Proposed Resolution:	
On lines 36 and 37, change "ElectroMagnetic" to "Electromagnetic."	
Reason for Recommendation:	
Comment # 33 Comment submitted by: Avraham Freedman Member	
TypeEditorialStarting Page Number17Starting Line Number7Section3.2	
Balloter's Suggested Change:	
Delete line 7	
Balloter's Reason:	
The acronym ICL appears also in line 4	
Recommendation: Accepted Recommendation by: Paul Thompson	
Proposed Resolution:	
Reason for Recommendation:	
Comment # 34 Comment submitted by: Walt Roehr Member	
Balloter's Suggested Change: delete line	
Balloter's Reason: is un-needed duplication of line 4	
Recommendation: Accepted-Duplicate Recommendation by: Paul Thompson	
Proposed Resolution:	
Proposed Resolution:	
Proposed Resolution: See Comment 33.	
Proposed Resolution: See Comment 33.	
Proposed Resolution: See Comment 33. Reason for Recommendation:	
Proposed Resolution: See Comment 33. Reason for Recommendation: Comment # 35 Comment submitted by: Adrian Florea Member Type Editorial Starting Page Number 19 Starting Line Number 16 Section 4.1	_
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Proposed Resolution: See Comment 3 3. Reason for Recommendation: Type Editorial Starting Page Number 19 Starting Line Number 16 Section 4.1 Balloter's Suggested Change: Remove comma after "and". Replace : "In reviewing these recommendation it should be understood that this document can not guarantee coexistence "protection", without wasting spectrum or the opportunity for economical deployments" with : "The practical implementation in the field of the present recommendation will assume that portion of the frequency spectrum (at the edge of the authorized bandwidth) as well as some parts of the service area can not be used for deployment." Balloter's Reason: Recommendation: Accepted-Modified Recommendation by: Jack Garrison Proposed Resolution: Reason for Recommendation: The proposed change adds emphasis to the fact that there are coexistence constraints. But two sentences are required to clearly differentiate between frequency and geo. area. Comment # 36 Comment submitted by: Avraham Freedman Member Type Editorial Starting Page Number 19 Starting Line Number 27 Section 4.1 Balloter's Reason: Balloter's Reason:	t some quency be used
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Proposed Resolution: See Comment 33. Reson for Recommendation: Comment = 35 Comment submitted by: Adrian Florea Momber 16 Section 4.1 Balloter's Suggested Change: Remove comma after "and". Replace : In reviewing these recommendation it should be understood that this document can not guarantee coexistence "protection", without wasting spectrum or the opportunity for economical deployments" with : "The practical implementation in the field of the present recommendation will assume that portion of the frequency spectrum (at the edge of the authorized bandwidth) as well as some service area can not be used for deployment." Balloter's Reson: Recommendation: Accepted-Modified Recommendation by: Jack Garrison Proposed Resolution: Recommendation: Recommendation: Recommendation: The proposed change adds emphasis to the fact that there are coexistence constraints. But two sentences are required to clearly differentiate between frequency and geo, area. Comment = 36 Comment submitted by: Arraham Freedman Type Editorial Starting Page Number 19 Starting Line Number 27 Section 4.1 Balloter's Suggested Change: Change "overlaps" to "overlaps Balloter's Reson: English grammer Recommendation: Accepted Manger English grammer Recommendation: Accepted Starting Page Number 19 Starting Line Number 27 Section 4.1 Balloter's Suggested Change: Change "overlaps" to "overlaps Balloter's Reson: English grammer	t some quency be used

Comment #	37	Comment su	ubmitted by:	Barry		Lewis		Member
Туре	Techn	ical. Binding	Starting Pag	e Number	19 9	Starting Line Number 31	Section	4.1

Balloter's Suggested Change: Insert the following paragraph:

"As a starting point for the consideration of tolerable levels of interference into BWA systems, ITU-R Recommendation F.758-2 [29] details two generally accepted values for the interference to thermal noise ratio (I/N) for long term interference into fixed service receivers. When considering interference from other services, it identifies an I/N value of -6dB or -10dB matched to the specific requirements of individual systems. This approach provides a method for defining a tolerable limit that is independent of most characteristics of the victim receivers apart from receiver noise figure and has been adopted for this practice document.

The acceptability of any I/N value needs to be evaluated against the statistical nature of the interference environment and in arriving at the Recommendations in this document this evaluation has been carried out for an I/N value of -6dB."

Balloter's Reason:

To provide a useful reference to closely related work in the ITU-R and to help the reader understand the basis of the work undertaken in this document .

Recommendation: Accepted-Modified Recommendation by: Jack Garrison

Proposed Resolution:

"Insert the following 2 paragraphs: As a starting point for the consideration of tolerable levels of interference into BWA systems, ITU-R Recommendation F.758-2 [29] details two generally accepted values for the interference to thermal noise ratio (I/N) for long-term interference into fixed service receivers. When considering interference from other services, it identifies an I/N value of –6 dB or –10 dB matched to specific requirements of individual systems. This approach provides a method for defining a tolerable limit that is independent of most characteristics of the victim receiver apart from noise figure, and has been adopted for this practice document.

The acceptability of any I/N value needs to be evaluated against the statistical nature of the interference environment. In arriving at the Recommendations in this document this evaluation has been carried out for an I/N value of –6 dB."

Reason for Recommendation:

Note: See Comment 146 for the Reference [29].

Comment #	38	Comment s	ubmitted by:	Jose		Costa			Member
Туре	Editori	al	Starting Pag	ge Number	19	Starting Line Num	ber 40	Section	4.1
Balloter's Su	ggested	Change:							
Replace "thi	s docu	ment does not find	l it appropriat	te" by "it is	outside	e the scope of this	docume	ent"	
Balloter's Re	eason:								
Documents	do not	find anything ("find	d it appropria	te"), author	s do.				
Recommenda	tion: A	ccepted	Recomme	ndation by:	Jack	Garrison			
Proposed Re	solutior								
Reason for	Recomm	endation:							

Comment #	39 Comment s	submitted by: Richard	Germon		Member	
Туре	Technical, Binding	Starting Page Number 20	Starting Line Number 2	Section	4.2	
Balloter's Su	uggested Change:					
from the ne	anging line 5 eighboring operators tran smissions of operators in					
p21 line 43	-p22 lin12 Recommenda	ation 8. Suggest delete or cla	rify.			
Balloter's Re	eason:					
	dation 1 should clarify that greater than -6dB level	at it applies to the co-channel due to proximity)	l adjacent area scenario (in	the same a	rea adj channel scenaric	some victims will have

Recommendation 8 -no recommendation appears to have been made. It is not clear to me what the recommendation should be___

December detions	Accepted-Modified	Recommendation b	w .	lack	Garrison	
Recommendation:	Accepted-wouthed	neconniendation b	·y	Jack	Garrison	

Proposed Resolution:

Line 5, p20: Make a modified change. Replace the text with "from a transmission of an operator in a neighboring area". Section [Recommendation] 8: p21, line 43 -. following cases, insert the words "analysis and simulation indicate that". p21, line 44- replace the words "usually need "guard frequency"" with "need an equivalent guard frequency". p21, line 45 - eliminate the words "Although not absolutely necessary". p22, line 5- extend the sentence to add "while Section 9 describes some possible interference mitigation techniques". Further add the sentence, "These mitigation techniques include frequency guard bands, recognition of cross polarization differences, antenna angular discrimination, spatial location differences and frequency assignment substitution.". p22, line 7-delete the first sentence and replace by "In most co-polarized cases, where the transmissions in each block are employing the same channel bandwidth, the guard frequency should be equal to one equivalent channel.".

Also add two new sentences, "Where the transmissions in neighbouring blocks employ significantly different channel bandwidths then it is likely that a guard frequency equal to one equivalent channel of the widest bandwidth system will be adequate. However analysis suggests that under certain deployment circumstances this may not offer sufficient protection and that a guard frequency equal to one channel at the edge of each operator's block may be required." p22, line 12-add the additional sentences, "However, in order to minimize interference conflicts and at the same time maximize spectrum utilization, cooperative deployment between operators will be essential. This recommendation strongly proposes that this be the case."

Reason for Recommendation:

This comment(s) is very hard to follow as it is jumping around with a lot of branches. Not sure why Line 5, p20 was binding but I decided to accept it and modify it to singular. I believe that throughout the doc it has been concluded that some one worst case coupling will likely dominate. Deletion of Recommendation 8, p21, line 43 is rejected as this Section represents one of the most significant sections of the document. Clairifying wording is proposed. Reference to p22, line 12 is not explained. Reference to Recommendation 1 is misplaced. It should have been presented referenced to Recommendation 1. In any event, Recommendation 1 clearly indicates that both CoCh and AdjCh channel interference considerations are under consideration with the objective to control I/N<=-6 dB, whether it be by a C/I estimate or by an a equivalent psdf boundary estimate.

Comment #	40	Comment su	ubmitted by:	Avraham		Freedman			Member
Туре	Techn	ical, Non-binding	Starting Pag	ge Number	20	Starting Line Number	12	Section	4.2

Balloter's Suggested Change:

Insert the bullet:

- The very nature of the MP system is that receivers have to accept interference from transmitters of the same system. Although a good practice would be to reduce the intra-system interference level to be well below the thermal noise level (see Recommendation 6 below), it is expected that it would not always be feasible. The actual level of external interference could be in many cases, higher than the limit stated above and still negligible, or comparable to the inter-system interference. Thus, there is some degree of freedom in interference allocation, which could be used to alleviate the coexistence problem.

Balloter's Reason:

From the recommendations as they are stated, it could be deduced that the trigger limit stated is an absolute limit which cannot be exceeded. Although in section 4.1 it is stated that intra-system interference is ignored (and rightfully so) they have an effect on coexistence coordination, as later on mentioned briely in section 9.

Recommendation:	Accepted-Modified	Recommendation	by:	Jack	Garrison
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Proposed Resolution:

Add text as: "The very nature of the MP system is that receivers have to accept interference from transmitters of the same system. Although a good practice would be to reduce the intra-system interference level to be well below the thermal noise level (see Recommendation 6 below), it is expected that it would not always be feasible. The actual level of external interference could be in many cases higher than the limit stated above and still be not controlling, or comparable to the operator's intra-system interference. Thus, there is some degree in interference allocation, which could be used to alleviate the coexistence problem."

Reason for Recommendation:

Some typos corrected as well as use if inter-system instead of intra-system.

			IEEE	802.16-01/01
rian	Florea	Member		

Comment #	41	Comment s	ubmitted by:	Adrian		Florea		Member
Туре	Technica	al, Binding	Starting Pag	je Number	20	Starting Line Number 34	Section	4.2
Balloter's Su	uggested C	Change:						
Remove rec	commenda	ation 3						

1. each operator has the target to deploy the most efficioent network, given his network architecture and equipment specs. This will assume using the most agrressive frequency reuse which still achieves the required c/i in all conditions/scenarios. This is in contradiction with the recommendation 3 2. "minimum intrasystem interference" is vague and has no practical meaning

Balloter's Reason:

Recommendation:	Accepted-Modified	Recommendation	by:	Jack	Garrison	
Recommendation:	Accepted-wouthed	neoonnichaution	~,.	ouon	Guillioon	

Proposed Resolution:

Line 34, p20, Replace the paragraph with "Each operator is expected to design and deploy his system with the necessary intra-system interference criteria that achieves the operator's system design objectives. However if the operator selects a minimum system design performance criteria, then it should be expected that both the operator and his neighbors would be subject to worst case inter-system exposures. The logic associated with this conclusion is that the same techniques of base station site selection, antenna selection, cell cluster configuration, emission control, etc. that lead to a minimization of intra-system interference. For example, while an operator's selection of an aggressive frequency re-use plan in conjunction with minimal antenna RPE rejection requirements might achieve the operator's intra-system performance requirements, the impact of this design on joint inter-system coexistence should be taken into consideration. Recommendations 9, 10 and 11 following and the proposed equipment parameters included in Section 6 identify equipment configurations that are expected to facilitate coexistence. While these guidelines cannot guarantee coexistence, they are expected to assist in its achievement. This recommendation strongly proposes that careful consideration be given to these criteria as an aid to facilitating coexistence."

Reason for Recommendation:

Removal of Section 3 is rejected. We all know that the selection of a minimum set of system parameters will be a coexistence disaster in fully deployed systems. Certainly one can be aggressive during the initial stages of deployment. However the recommendation is a warning as to the possible consequences. But I have given them an out. Go ahead and do it - but beware the consequences.

Comment #	42	Comment su	ubmitted by:	Walt		Roehr			Member
Туре	Techn	ical, Binding	Starting Pag	<mark>ge Number</mark> 21	St	tarting Line Number	14	Section	4.2

Balloter's Suggested Change:

This is the first place that the 60 km "guard region" is mentioned. At this location the recommendation actually does have the proper "tone": "If you are 60 km from everyone don't worry about coordination". Better would be: "You had darn well better coordinate with your neighbors or else you are going to have to abandon 60 km at the border." But after some more almost alright words in section 7 we get to Section 8 that does not talk in terms of coordination triggers but (page 63, line 24) "by following these guidelines, satisfactory psfd levels will be achived at system boundries." -- these have become the recommended guidelines. Table 8-1, on page 67 compounds the disaster, with the listing of "Spacing for acceptable Performance".

Balloter's Reason:

If this is published as an IEEE802 document you can bet that people selling non-802 radios will geefully pointout to potential customers that the IEEE 802 radios need 60 km of guard space!

Recommendation: Accepted-Modified Recommendation by: Jack Garrison

Proposed Resolution:

Line 16, p21, Add the following clarification, "Based on typical BWA equipment parameters and an allowance for potentional LOS interference couplings, subsequent analysis indicates that a 60 km boundary distance is sufficient such that coordinaion is not required. At lesser distances, coordination may be required, but it is subject to a detailed examination of the specific transmission path details that may provide for interference link excess loss or blockage. This coordination criteria is viewed to be necessary and appropriate for both systems that conform to this practice document and those that do not comply with this document"

Reason for Recommendation:

Very appropriate and well received comments. I have tried to cover off the Rec 5 comments here. If my modified text is not adequate, then I would welecome an input from the commenter. Comments referencing Sections 7 and 8 need to be dealt with there.

Comment #	43	Comment su	bmitted by:	Barry		Lewis			Member
Туре	Editorial		Starting Pag	e Number	21 s	tarting Line Number	26	Section	4.2

Balloter's Suggested Change:

Insert the following sentence between "..below." and "These values":

"The evaluation point for the trigger exceedance may be at either the victim operators licensed area boundary, the interfering operators boundary or at a defined point in between dependant to some extent on the specific geographic circumstances of the BWA licensing."

Balloter's Reason:

The recommendations do not provide information on where to apply the trigger. However section 7 identifies a specific procedure based on one of these options and some annexed alternative co-ordination procedures. All three options in the sentence proposed above are used at various places in the document.

Recommendation: Accepted-Modified Recommendation by: Jack Garrison

Proposed Resolution:

Insert the following sentence between "..below." and "These values":

"The evaluation point for the trigger exceedance may be at either the victim operator's licensed area boundary, the interfering operator's boundary, or a defined point in between dependant to some extent on the specific geographic circumstances of the BWA licensing."

Reason for Recommendation:

Accept with grammatical modifications.

2001-01-10				IEEE 802.16-01/01
Comment # 44 Comment su	ubmitted by: Barry	Lewis	Member	
Type Technical, Binding	Starting Page Number 21	Starting Line Number 44 Section	on 4.2	
Balloter's Suggested Change:				
Delete "usually"				
Balloter's Reason: Strengthens Recommendation 8. The	existing text leaves the read	er uncertain. The exceptions are a	dequately covered later in th	ne text
Recommendation: Accepted-Duplicate	Recommendation by: Jack	Garrison		
Proposed Resolution: See resolution of Comment 39				
See resolution of Comment Sa				
Reason for Recommendation:				
Comment # 45 Comment su	ubmitted by: Barry	Lewis	Member	
Type Technical, Binding	Starting Page Number 22	Starting Line Number 7 Section	on 4.2	
Balloter's Suggested Change:				
Insert after "most cases" the words	"where the transmissions in e	each block are using the same cha	nnel spacing,"	
Balloter's Reason:				
Helps to promote the idea that differen	nt guard band widths may be	e required in different circumstances	3.	
Recommendation: Accepted-Duplicate	Recommendation by: Jack	Garrison		
Proposed Resolution:				
See resolution of Comment 39.				
Reason for Recommendation:				
Comment # 46 Comment su	ubmitted by: Barry	Lewis	Member	
Type Technical, Binding	Starting Page Number 22	Starting Line Number 7 Section		
Balloter's Suggested Change:				
Replace the text "where the transmis	ssions are of different bandw	idth. the quard channel should be	equal to the wider channel."	with "where channel spacings
are considerably different across the f				
Balloter's Reason:				
The current text is not consistent with	section 8.1.10.1.			
Recommendation: Accepted-Duplicate	Recommendation by: Jack	Garrison		
Proposed Resolution:				
See resolution of Comment 39.				
Reason for Recommendation:				
Comment # 47 Comment su	ubmitted by: Philip	Whitehead	Member	
туре Editorial	Starting Page Number 24	Starting Line Number 16 Section	on 4.3	
Balloter's Suggested Change:				
Make System plural ; "Systems"				
Balloter's Reason:				
Correction of English				
Recommendation: Accepted	Recommendation by: Jack	Garrison		
Proposed Resolution:				

Reason for Recommendation:

2001-01-10	IEEE 802.16-01/01
Comment # 48 Comment submitted by: Barry Lewis Member	
Type Technical, Non-binding Starting Page Number 24 Starting Line Number 22 Section 4.3	
Balloter's Suggested Change:	
In Table 4-1, 3rd column add the words "without co-ordination" to the column heading.	
Balloter's Reason: Clarifies the meaning of the parameter values in this column.	
Recommendation: Accepted Recommendation by: Jack Garrison	
Make requested change.	
Make the same change in column 5 of Table 8.1 (p 67).	
Reason for Recommendation:	
More definitive description for the conditions under which the column entries apply.	
Comment # 49 Comment submitted by: Barry Lewis Member	-
Type Technical, Binding Starting Page Number 24 Starting Line Number 22 Section 4.3	
Balloter's Suggested Change:	
In Table 4-1, replace "[54km]" with "60km".	
Balloter's Reason: Square brackets should be removed and 54km is inconsistent with Table 8-1, Pg 67.	
Recommendation: Accepted Recommendation by: Jack Garrison	
Proposed Resolution:	
Make Change.	
Also, on page 25 line 2, change 54 km to 60 km	
Reason for Recommendation:	
Document Consistency. We are either going to be 60 km or 54 km throughout. Both numbers have been bandied about resul	Iting in some confusion.The Annex
B example estimate is 60 km.	
Comment # 50 Comment submitted by: Barry Lewis Member	
Type Technical, Binding Starting Page Number 24 Starting Line Number 22 Section 4.3	
Balloter's Suggested Change: In Table 4-1, third column, add "(note 5)" after "CS-CS" in the row referring to PMP hub to PMP hub.	
Balloter's Reason:	
The substance of note 5 applies to this interference path also.	
Recommendation: Accepted Recommendation by: Jack Garrison	
Proposed Resolution:	
Reason for Recommendation:	
Comment # 51 Comment submitted by: Walt Roehr Member	
Type Editorial Starting Page Number 24 Starting Line Number 22 Section Table 4-1	
Balloter's Suggested Change:	
take out unneeded hard returns in table elements; remove square brackets from 54 km; why mix terminology "hub" in column	1 and "CS" in column 3?
Balloter's Reason:	
appears that this table was not cleaned up before publication	
Recommendation: Accepted-Modified Recommendation by: Jack Garrison	
Proposed Resolution: Take out hard returns, [54] changed to 60 in Comment 49, delete CS-CS in column 3	
Reason for Recommendation:	

Comment #	52	Com	nment sul	bmitted by:	Philip		Whitehead			Member	
Туре	Editor	ial		Starting Pag	ge Number	24	Starting Line Number	22	Section	Table 4-1	
Balloter's S	uggeste	Change:									
remove squ	uare bra	ckets from '	"[54km]"								
Balloter's F	leason:										
Square bra	ckets in	ply the nur	mber is r	not decided							
Recommend	lation:	ccepted-Du	plicate	Recomme	ndation by:	Jack G	iarrison				
Proposed R	esolutio	n:									
See resolu	tion of	Comment 4	9								
Reason for	Recom	nendation:									
Comment #	53	Com	nment sul	bmitted by:	Barry		Lewis			Member	
Туре		ical, Bindin	ng	Starting Pag	ge Number	25	Starting Line Number	6	Section	4.3	
Balloter's S	uggeste	Change:	Ū								
			sentend	ces with the	following;	"Where	channel spacings a	re cor	nsiderably d	ifferent across the frequ	ency block boundary, analysis
suggests th	nat one	equivalent g	guard ch	annel may	be necessa	ary at th	e edge of each ope	ator's	block."		
Balloter's F											
Current tex	t is inco	nsistent wit	th 8.1.10	.1							
Recommend	lation:	ccepted-Mo	dified	Recomme	ndation by:	Jack G	arrison				
Proposed R	esolutio	1:									
likely that a	a guard	frequency e	equal to	one equiva	lent channe	el of the	widest bandwidth s	ystem	will be ade		hannel bandwidths then it is suggests that under certain each operators may be
	_										
Reason for Expanded			clear as	to exact gu	ard band re	auirem	ent.				
				Je energe							
					-						
Comment #	54			bmitted by:			Lewis	1.0		Member	
Туре		ical, Bindin	ng	Starting Pag	ge Number	25	Starting Line Number	10	Section	4.3	
Balloter's S				a a a suiteba ela a	felles de se	11) A //= = = = =					
							e edge of each ope			ifferent across the frequ	ency block boundary, analysis
Balloter's F	leason:										
Current tex	t is inco	nsistent wit	th 8.1.10	.3							
Recommend	lation:	ccepted-Mo	dified	Recomme	ndation by:	Jack G	iarrison				
Proposed R	esolutio	n:									
likely that a	a guard	frequency e	equal to	one equiva	lent channe	el of the	widest bandwidth s	ystem	will be ade	quate.However analysis	channel bandwidths then it is s suggests that under certain each operator's block may be
Reason for	Recom	nendation:									

Expanded to ensure that it is clear as to exact guard band requirement.

Comment #	55	Comment su	ubmitted by:	Roger		Marks			Member
Туре	Editorial		Starting P	age Numbei	26	Starting Line Number	3	Section	5.1
Balloter's Su	iggested Chai	nge:							

Change the last four sentences to:

Within IEEE, Working Group 802.16 is developing standards for PMP systems with hub stations and end user stations communicating over a fully specified air interface. A similar PMP standard is being developed within the "HIPERACCESS" topic within ETSI Project. Coexistence specifications for MWS (which includes the requirements for HIPERACCESS) have been prepared by the ETSI TM4 committee. In addition, a number of proprietary BWA systems exist for which the air interface is not standardized.

Balloter's Reason:

Editorial.

Recommendation: Accepted-Modified Recommendation by: Phil Whitehead

Proposed Resolution:

Change the last four sentences to:

"Within IEEE, Working Group 802.16 is developing standards for PMP systems with base stations and subscriber stations communicating over a fully specified air interface. A similar PMP standard is being developed within the "HIPERACCESS" topic within ETSI Project BRAN. Coexistence specifications for MWS (which includes the requirements for HIPERACCESS) are being prepared by the ETSI TM4 committee. In addition, a number of proprietary BWA systems exist for which the air interface is not standardized."

Reason for Recommendation:

comment accepted with minor amendments: -harmonization of terms -inclusion of BRAN (the relevant ETSI project name) -change of tense (TM4 coexistence work not yet finished)

Comment #	56	Comment s	ubmitted by:	Walt		Roehr				Member
Туре	Edito	rial	Starting Pag	ge Number	26	Starting	Line Number	14	Section	5.1.1
Balloter's Su	uggeste	ed Change:								
replace fina	l claus	se of sentence with	"providing up	o to 360 de	egrees	s coverage	e with one o	r more	e antennas."	
Balloter's R	eason:									
clarity										
Recommenda	ation:	Accepted	Recomme	ndation by	: Phil	Whitehead	l .			
Proposed Re	esoluti	on:								
Reason for	Recon	mendation:								
Comment #	57	Comment s	ubmitted by:	Richard		Germo	n			Member
	Tech	nical, Binding	Starting Pag	ge Number	26	Starting	Line Number	30	Section	5.1.2
Balloter's Su	uggeste	ed Change:								
Delete sent										
"By providin	g	and spectrum Eff	iciency"							
Balloter's R										
Unsubstanti	ated	claim not relevent to	o co-existenc	е						
Recommenda	ation:	Accepted-Modified	Recomme	ndation by	Phil	Whitehead	I			
Proposed Re	esoluti	on:								
	ng	and spectrum Eff	ficiency"							
"types, wit	h mea	ins for remote align	ment."							

Reason for Recommendation:

Agree that the claims have not been substantiated (in this document). Remote alignment is, however, an important characteristic which affects coexistence because antenna directions change reguarly to accommodate new subscribers.

Comment #	58	Comment	submitted by:	Richard		Germon			Member	
Туре	Technic	al, Non-binding	Starting Pa	ge Number	27 :	Starting Line Number	5	Section	5.2	
Balloter's S	uggested	Change:								
Delete lines	s 5 to 8									
Balloter's R	Reason:									
Not releven	nt to co-ex	istence								
Recommend	lation: Acc	epted-Modified	Recomme	endation by:	Phil W	hitehead				
Proposed R										
		8 as follows:								
"ICLs may	share a c		ucture, such a	as the switch	n, with t	he PMP system. Ad	ditionally	, ICL radi	os may be able to opera	ate under the auspices of the
PMP licent	ce."									
Reason for	Recomme	ndation:								
										nder the PMP licence may have
different co	pexistence	e characteristics	from those w	which do not,	, as the	re may be different	regulator	ry constra	ints on them.	
Comment #	59	Comment	submitted by:	Avraham		Freedman			Member	
Туре	Editorial	l	Starting Pa	ge Number	27	Starting Line Number	26	Section	5.2	
Balloter's S	uggested	Change:								
In figure 1:										
Replace "IL	" with "ICI	L"								
Balloter's R			roughout the	dooumont						
The acrony	m ICL is t	he one used th	rougnout the	document						
Recommend	lation: Acc	cepted	Recomme	endation by:	Phil W	hitehead				
Proposed R	lesolution:									
Reason for	Recomme	ndation:								
Comment #	0.0		submitted by:	Avraham		Freedman			Member	
	60	Comment				1				
Type	60 Editorial		Starting Pa	ae Number	27 :	Starting Line Number	26	Section	5.2	
Type Balloter's S	Editorial	I	Starting Pa	ge Number	27	Starting Line Number	26	Section	5.2	
Balloter's S	Editorial	I	Starting Pa	ge Number 2	27 9	Starting Line Number	26	Section	5.2	
Balloter's S In figure 1:	Editorial	I					26	Section	5.2	
Balloter's S In figure 1:	Editorial	Change:					26	Section	5.2	
Balloter's S In figure 1: Add the not Balloter's R	Editorial uggested of tation "G" Reason:	Change:	line on the ve	ertical syster			26	Section	5.2	
Balloter's S In figure 1: Add the not Balloter's R	Editorial uggested (tation "G" Reason: Iso have a	Change: to the interface "G" interface to	line on the ve TE, not only	ertical syster	m boun	dary as well	26	Section	5.2	
Balloter's S In figure 1: Add the not Balloter's R The STS al Recommend	Editorial uggested of tation "G" leason: lso have a lation: Acc	Change: to the interface "G" interface to	line on the ve TE, not only	ertical syster	m boun	dary as well	26	Section	5.2	
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Balloter's S In figure 1: Add the not Balloter's R The STS al Recommend	Editorial uggested of tation "G" leason: lso have a lation: Acc lesolution:	Change: to the interface "G" interface to cepted	line on the ve TE, not only	ertical syster	m boun	dary as well	26	Section	5.2	
Balloter's S In figure 1: Add the not Balloter's R The STS al Recommend Proposed R	Editorial uggested of tation "G" Reason: Iso have a lation: Acc resolution: Recomment	Change: to the interface "G" interface to cepted	line on the vo TE, not only Recomme	ertical system the RTS endation by:	m boun	dary as well hitehead	26	Section		
Balloter's S In figure 1: Add the not Balloter's R The STS al Recommend Proposed R	Editorial uggested of tation "G" Reason: Iso have a lation: Acc Recomment 61	Change: to the interface "G" interface to cepted ndation:	line on the vo TE, not only Recomme	ertical system the RTS endation by: Walt	m boun Phil W	dary as well hitehead Roehr			Member	
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Balloter's S In figure 1: Add the nor Balloter's R The STS al Recommend Proposed R Reason for Comment # Type Balloter's S	Editorial uggested of tation "G" Reason: Iso have a lation: Acc tesolution: Recomment 61 Editorial uggested of	Change: to the interface "G" interface to cepted ndation: Comment	line on the vo TE, not only Recomme	ertical system the RTS endation by: Walt	m boun Phil W	dary as well hitehead Roehr			Member	
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Balloter's S In figure 1: Add the nor Balloter's R The STS al Recommend Proposed R Reason for Comment # Type Balloter's S Replace "IL Balloter's R	Editorial uggested of tation "G" Reason: Iso have a lation: Acc Recomment Editorial Editorial uggested of "in figure Reason: t's in section lation: Acc	Change: to the interface to regred ndation: Comment : With "ICL" on 3.2	line on the vo o TE, not only Recomme submitted by: Starting Pa	ertical system the RTS endation by: Walt ge Number	m boun Phil W 27	dary as well hitehead Roehr Starting Line Number			Member	
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2001-01-	10									IEEE 802.16-01/01
Comment #	62	Comment s	ubmitted by:	Zev		Bogan			Observer	
Туре	Editorial		Starting Pag	ge Number	30	Starting Line Number	16	Section	5.3.1.2	
Balloter's S	uggested C	hange:								
1. insert "tl	hermal" in '	just equals the	THERMAL	noise floor	+ the	signal tonoise of the	receive	r"		
2. Remove	"thermal" f	from line 19 and	l line 21. Sh	ould read: "	' The I	noise floor is"				
3. Adjust r	noise powe	r density units:	either -108dE	3m/MHz or	-138d	IBW/MHz (line19 twic	e) line 2	20 , adjust	power density units line	e 21, adjust power density units
Balloter's F	Reason:									
Needed for	r clarity. No	ise floor definit	tion includes	receiver NI	F. Erro	or in power density ur	nits			
Recommend	lation: Acc	epted-Modified	Recomme	ndation by:	Phil	Whitehead				
Proposed R		rting on line 15	oo fellewee							
"During the Boltzmann Change se "The receiv On line 19 Change se	e designed 's constant entence sta ver thermal change "-1 entence sta	, T is the tempe rting at the end noise is -138 d 38 dBm/MHz" t rting on line 20	n fade, the leverature, B is to of line 18 as IBW/MHz." to "-138 dBW as follows:	he receiver s follows: //MHz"	band [,]	width and F is the rec	eiver n	oise figure		noise, kTBF, where k is or degrade the link budget by
Reason for	Recommen	dation:								
The wordir	ng has bee	n amended furt	her to remov	ve possible	confu	sion between the terr	ns "nois	se floor" ar	nd "thermal noise floor"	
Comment #	63	Comment s	ubmitted by:	Barry		Lewis			Member	
Туре	Technica	l, Binding	Starting Pag	ge Number	30	Starting Line Number	19	Section	5.3.1.2	
Balloter's S	uggested C	hange:								
Change all	references	to "dBm/MHz"	to "dBW/MH	z" in four pl	laces,	lines 19 to 21 inclusion	ve.			
Balloter's F										
Incorrect u	nits.									
Recommend	lation: Acc	epted	Recomme	ndation by:	Phil	Whitehead				
Proposed R See details		ont 62								
See details	S III COIIIII									
Reason for	Recommen	dation:								
Comment #	64	Comment s	ubmitted by:	Avraham		Freedman			Member	
Туре	Editorial		Starting Pag	ge Number	35	Starting Line Number	41	Section	6.1.1	
Balloter's S	uggested C	hange:								
Add referen	nces to the	reviewed docu	ments menti	oned in tha	t line					
Balloter's F	Reason:									
Completen	less									
Recommend	lation: Acc	epted-Clarified	Recomme	ndation by:	Remi	Chayer				
Proposed R								1.11		
	ily 2000) U									e #40 and 41 by "from ns and recommendations were
Reason for	Recommen	dation:								
Comment #	65	Comment s	ubmitted by:	Avraham		Freedman			Member	
Туре	Editorial		Starting Pag	ge Number	36	Starting Line Number	10	Section	6.1.1	
Balloter's S	uggested C	hange:								
Delete the	sentence s	starting with "Th	ey are also"	ending with	n " use	ed in simulation" .lines	s 10-13			
Balloter's F	Reason:									
The senter	nce appear	s twice.								
Recommend	lation: Acc	epted-Clarified	Recomme	ndation by:	Remi	Chayer				
Proposed R										
		nces specified.								
Reason for	Recommen	dation:								

Type Editional Statume Statume <td< th=""><th>Comment # 66 Comment submitted by: Walt Roehr Member</th><th></th></td<>	Comment # 66 Comment submitted by: Walt Roehr Member	
The for lease of figure and table references leaked out here Binder's. Recemmendation: Comment - 67 Comment submitted by: Renui Chayse Propeed Resolution: Recemmendation: Comment - 67 Comment submitted by: Renui Chayse Change surfaces Table 61-Comparison of, Compares regulatory links* to: Table 61-Comp	Type Editorial Starting Page Number 36 Starting Line Number 10 Section 6.1.1	
biologi Recommendation: Accepted Recommendation by Remi Chayer Proposed Recommendation: Comment of Comment submitted by Annham Preciana Maintee 10 Section Co.1.1 Biologi Subport Table Co-Comparison of Comparier regulatory limits * to: ************************************	Balloter's Suggested Change:	
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Reacon for Recommendation: Monitor Type Editional Starting Page Number 38 Starting Line Number 16 Section Biblicary: Recommendation: Recommendation Recommendation Recommendation Recommendation: Recommendation by: Recommendation Noncorr Recommendation: Noncorr Noncorr Noncorr Recommendation: Recommendation Noncorr Noncorr Type Editional Accepted Dation number: Noncorr Noncorr Relation: Starting Line Number 38 Starting Line Number 14 Section 6.1.1.2 Relation: Noncorr Noncorr Noncorr Noncorr Proposed Resolution: Noncorr Noncorr Noncorr Noncorr Recommendation: Recommendation by: Recommendation Section 6.1.1.5." Noncorr Noncorr Proposed Resolution: Starring	Recommendation: Accepted Recommendation by: Remi Chayer	
Comment 2 67 Comment submitted by: Avalam Preedman Member Type Editorial Surving Page Number 36 Starting Live Number 16 Section 6.1.1 Baldeter's Response Dettor readability Recommendation: Accepted Recommendation by: Remi Chayer Propased Recould Starting Page Number 38 Starting Live Number 14 Section 6.1.1.2 Baldeter's Response Dettor recommendation: Accepted Starting Page Number 38 Starting Live Number 14 Section 6.1.1.2 Baldeter's Response Recommendation: Accepted Charget Recommendation: Accepted Charget Replace '0' with the right section number. Baldeter's Response Recommendation: Accepted Charget Replace '0' with the right section number. Baldeter's Response Recommendation: Accepted Charget Replace '0' with the right section number. Baldeter's Suggested Charget Charge Starting Page Number 38 Starting Live Number 14 Section 6.1.1.2 Baldeter's Suggested Charget Charge Starting Page Number 38 Starting Live Number 14 Section 6.1.1.2 Baldeter's Suggested Charget Charge Starting Page Number 38 Starting Live Number 14 Section 6.1.1.2 Baldeter's Suggested Charget Charge Starting Page Number 38 Starting Live Number 14 Section 6.1.1.2 Baldeter's Suggested Charget Charge Starting Page Number 38 Starting Live Number 14 Section 6.1.1.2 Baldeter's Suggested Charget Charge Starting Page Number 38 Starting Live Number 14 Section 6.1.1.2 Baldeter's Suggested Charget Charge Starting Page Number 38 Starting Live Number 14 Section 6.1.1.2 Baldeter's Suggested Charget Charge Starting Page Number 38 Starting Live Number 17 Section 6.1.1.2 Baldeter's Suggested Charget Charge Starting Page Number 38 Starting Live Number 17 Section 6.1.1.2 Baldeter's Suggested Charget Charge Page Anterione Section 0' To proper reference Baldeter's Suggested Charget Charge Page Anterione Section 1' So proper reference Baldeter's Suggested Charget Charget Page Anterione Section 1' So proper reference Baldeter's Suggested Charget Charget Page Anterione Section 5.2, System Components' Baldeter's Response	Proposed Resolution:	
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Balloter's Reason: there is no section 0 Recommendation: Accepted-Duplicate Recommendation by: Remi Chayer Proposed Resolution: See Comment # 70 Comment submitted by: Walt Roehr Comment # 70 Comment submitted by: Walt Roehr Type Editorial Starting Page Number 38 Starting Line Number 27 Section 6.1.1.3 Balloter's Suggested Change: Change paranthetical to: "see Section 5.2, System Components" Balloter's Reason: Section 5.2 is where repeaters are discussed Recommendation: Accepted Recommendation by: Remi Chayer Proposed Resolution:		
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Recommendation: Accepted-Duplicate Recommendation by: Remi Chayer Proposed Resolution: See Comment #68. Reason for Recommendation: Image: Comment #68. Comment # 70 Comment submitted by: Walt Roehr Member Type Editorial Starting Page Number 38 Starting Line Number 27 Section 6.1.1.3 Balloter's Suggested Change: Change paranthetical to: "see Section 5.2, System Components" Image: Section 5.2 is where repeaters are discussed Image: Section 5.2 is where repeaters are discussed Recommendation: Accepted Recommendation by: Remi Chayer Proposed Resolution: Image: Section Sec		
Proposed Resolution: See Comment #68. Reason for Recommendation: Comment # 70 Comment submitted by: Walt Roehr Member Type Editorial Starting Page Number 38 Starting Line Number 27 Section 6.1.1.3 Balloter's Suggested Change: Change paranthetical to: "see Section 5.2, System Components" Balloter's Reason: Section 5.2 is where repeaters are discussed Recommendation: Accepted Recommendation by: Remi Chayer Proposed Resolution:		
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Reason for Recommendation: Comment # 70 Comment submitted by: Walt Roehr Member Type Editorial Starting Page Number 38 Starting Line Number 27 Section 6.1.1.3 Balloter's Suggested Change: Change paranthetical to: "see Section 5.2, System Components" Balloter's Reason: Section 5.2 is where repeaters are discussed Recommendation: Accepted Recommendation by: Remi Chayer Proposed Resolution:		
Comment # 70 Comment submitted by: Walt Roehr Member Type Editorial Starting Page Number 38 Starting Line Number 27 Section 6.1.1.3 Balloter's Suggested Change: Change paranthetical to: "see Section 5.2, System Components" Section 6.1.1.3 Balloter's Reason: Section 5.2 is where repeaters are discussed Recommendation by: Remi Chayer Femile Chayer Proposed Resolution: Recommendation by: Remi Chayer Section Section		
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Balloter's Reason: Section 5.2 is where repeaters are discussed Recommendation: Accepted Recommendation: Accepted Proposed Resolution:		
Section 5.2 is where repeaters are discussed Recommendation: Accepted Recommendation: Recommendation by: Proposed Resolution:	Change paranthetical to: "see Section 5.2. System Components"	
Proposed Resolution:		
	Balloter's Reason:	
Reason for Recommendation:	Balloter's Reason: section 5.2 is where repeaters are discussed	
	Balloter's Reason: section 5.2 is where repeaters are discussed Recommendation: Accepted Recommendation by: Remi Chayer	

2001-01-1	0
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Comment #	71	Comment s	ubmitted by:	George		Fishel				Member	
Туре	Editorial		Starting Pa	ige Number	39	Starting Line	Number	8	Section	6.1.1.4	
Balloter's S	uggested Change	:									
Remove the	e words Power (Control" fro	om the end o	of the sente	nce."						
Balloter's R	eason:										
Not needed	I. Is this the title	of the nex	t section?								
Recommend	ation: Accepted		Recomm	endation by:	Remi	Chayer					
Proposed R	esolution:										
Bassan for	Recommendation										
	Recommendation										
Comment #	72	Comment s	ubmitted by:	Avraham		Freedman				Member	
Type	Editorial	oonnient o		age Number	39	Starting Line	Number	8	Section	6.1.1.4	
	uggested Change		oturting rt	ige number	00	j		0	oconon	0.1.1.1	
	wer Control"	•									
Balloter's R	eason:										
Irrelevant											
Recommend	ation: Accepted	Duplicate	Recomm	endation by:	Remi	Chaver					
Proposed R		Dupnouto		,-		,					
See Comm											
Reason for	Recommendation	1:									
• • • •	70	Commont s	ubmitted by:	Durga		Satapathy				Member	
Comment #	73 Editorial	comment s			30	Starting Line	Number	8	Section	6.1.1.4	
Type			Starting Pa	ige Number	39	Starting Line	Number	0	Section	0.1.1.4	
	uggested Change e words " Power		at end of line	8							
Balloter's R		Control C									
			_			01					
	ation: Accepted	Duplicate	Recomm	endation by:	Remi	Chayer					
Proposed R See Comm											
See Comm											
Reason for	Recommendation	:									
Comment #		Comment s	ubmitted by:			Freedman				Member	
Туре	Editorial		Starting Pa	ige Number	39	Starting Line	Number	20	Section	6.1.1.6	
	uggested Change	:									
Change "lin											
Balloter's R	eason: eam, there are a	number o	f links to be	maintained							
						01					
	ation: Accepted		Recomm	endation by:	Remi	Chayer					
Proposed R	esolution:										
Reason for	Recommendation										
Comment #	75	Comment s	ubmitted by:	Avraham		Freedman				Member	
Туре	Editorial		Starting Pa	ige Number	40	Starting Line	Number	16	Section	6.1.3.1	
	uggested Change										
Change "se	e section A.1.2	' to "see A	nnex A, sec	tion A.1.2"							
Balloter's R											
Better read	ability										
Recommend	ation: Accepted	Modified	Recomm	endation by:	Remi	Chayer					
Proposed R											
	. see section A. lines #18 and 4		ne #16 to ".	see Annex	A, Se	ction A.1.2 -	Single-ca	arrier te	est". Also,	remove the dot following	the titles of the sections in
Reason for	Recommendation										

						Manahan	
	submitted by:		Freedman	-		Member	
Technical, Non-binding	Starting Pag	e Number 42	2 Starting Line Numb	er /	Section	6.1.3.1	
Balloter's Suggested Change:							
Change the first three paragraphs af		o read as follo	OWS				
Within Europe, the following is appli 1. In frequency range 1, from 10 to 2		PT/EBC Bec	ommendation 74-01 an	nlipe whi	nh sots a li	mit -40 dBm/MHz for a	Terminal Station and 50
dBm/MHz for a Central Station		I/Eno necc		pies, wiik	511 3013 4 1		reminal station, and -50
2. In frequency range 2 (as of 21.1 C	Hz), ETSI dra	aft EN 301 39	90 should be apllied (s	ee below).			
3. In grequency range 3 (above 43.5							
4. Within +/-250% of the channel a s	pecific spectru	um mask app	lies, which should be t	aken from	the appro	priate standard docum	ented by ETSI.
Balloter's Reason:							
For a more complete view of the reg	ulations in Eu	rope, coverin	g all frequency ranges	of the Re	commend	ed Practices	
Recommendation: Accepted-Modified	Recommer	ndation by: R	emi Chayer				
Proposed Resolution:							
Partially agreed. Delete current text	in lines #14 to	20 on page	#42 and lines #1 and !	on nade	#43 Benl	ace by "According to F	TSLEN 301 390 V1 1 1
(2000-12) section 4.1.3, the followin				- on page			
The CEPT/ERC Recommendation 7	4-01 shall app	bly for spuriou	is emissions in the free	uency rar	nge 9 kHz	to 21.2 GHz and above	43.5 GHz."
Also, on same page line #6, change	"shall apply	" to "shall	apply to both Central a	nd Termir	nal Station	s. In this frequency rang	ge, where the -40 dBm limit
shown in the Figures 9 and 10 apply	v, allowance is	given for no	more than 10 discrete	(CW) spu	irious emis	ssions which are permit	ted to exceed the limit up to -30
dBm."							
Also, in lines #1 and 9 on page #43,	change "[4]" to	o "[1]".					
,	- 3- L-1 V	1 A 1					
Reason for Recommendation:							
Reason: It is better to stick as close	as possible to	the text of th	e ETSI document to av	old misinf	erpretation	٦.	
Comment # 77 Comment s	submitted by:	Avraham	Freedman			Member	
	usinitica sy.	/ Wranam	riccanan				
	A A A A		Charding Line Numb		a	6.0.0	
туре Editorial	Starting Pag	e Number 46	Starting Line Numb	er 1	Section	6.2.2	
Balloter's Suggested Change:					Section	6.2.2	
					Section	6.2.2	
Balloter's Suggested Change: The symbol should be used within t					Section	6.2.2	
Balloter's Suggested Change: The symbol should be used within the Balloter's Reason:	ne figures and	tables, and r	not the words "alpha",	or "beta"		6.2.2	
Balloter's Suggested Change: The symbol should be used within t	ne figures and	tables, and r	not the words "alpha",	or "beta"		6.2.2	
Balloter's Suggested Change: The symbol should be used within the Balloter's Reason:	ne figures and limited to text	tables, and r	not the words "alpha", · ft standard can use Gro	or "beta"		6.2.2	
Balloter's Suggested Change: The symbol should be used within the Balloter's Reason: Unlike the voting document which is	ne figures and limited to text	tables, and r only, the drat	not the words "alpha", · ft standard can use Gro	or "beta"		6.2.2	
Balloter's Suggested Change: The symbol should be used within the Balloter's Reason: Unlike the voting document which is Recommendation: Accepted-Clarified	ne figures and limited to text Recommer	tables, and r only, the drat	not the words "alpha", ft standard can use Gro emi Chayer	or "beta" eek letters	i.		na. In Table 6-4, Figure 14,
Balloter's Suggested Change: The symbol should be used within the Balloter's Reason: Unlike the voting document which is Recommendation: Accepted-Clarified Proposed Resolution:	imited to text Recommer able 6-3, Tabl	tables, and r only, the drat ndation by: R le 6-7, Table	not the words "alpha", ft standard can use Gro emi Chayer 6-8 and Table 6-9, cha	or "beta" eek letters inge all "a	:. Ipha" to th	e Greek symbol for alpt	
Balloter's Suggested Change: The symbol should be used within the Balloter's Reason: Unlike the voting document which is Recommendation: Accepted-Clarified Proposed Resolution: In Figure 11, Table 6-2, Figure 12, T	imited to text Recommer able 6-3, Tabl	tables, and r only, the drat ndation by: R le 6-7, Table	not the words "alpha", ft standard can use Gro emi Chayer 6-8 and Table 6-9, cha	or "beta" eek letters inge all "a	:. Ipha" to th	e Greek symbol for alpt	
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Balloter's Suggested Change: The symbol should be used within the symbol should be symbol should be used within the symbol should be	imited to text Recommer able 6-3, Tabl change all "be	tables, and r only, the draf ndation by: R le 6-7, Table eta" to the Gro Zev	not the words "alpha", ft standard can use Gro emi Chayer 6-8 and Table 6-9, cha eek symbol for beta. T Bogan	or "beta" eek letters inge all "a nis seems	Ipha" to th to be a M	e Greek symbol for alpt	
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IEEE 802.16-01/01

Comment # 79	Comment s	ubmitted by: George	Fishel			Member	
Type Edito	rial	Starting Page Number	53 Starting Line	<mark>e Number</mark> 10	Section	6.1.3	
Balloter's Suggeste	d Change:						
Add page break to	the bottom of page	e so the title for Table 6-9	9 is with the table	on page 54.			
Balloter's Reason:							
he title for the ta	ble is not with the ta	able.					
Recommendation:	Accepted-Clarified	Recommendation by:	Remi Chayer				
Proposed Resolution	on:						
Keep captions wi	th their tables.						
Reason for Recom	mendation						
		there are better means to	o keep captions w	ith their tables.			
	°						
						Marchan	
Comment # 80		ubmitted by: Avraham	Freedman			Member	
Type Edito	rial	Starting Page Number	57 Starting Line	e Number 1	Section	6.3.1.3	
Balloter's Suggeste							
Change C/N = 14	dB to $C/(I+N) = 14$	dB					
Balloter's Reason:							
Better reflects the	intent						
Recommendation:	Accepted-Modified	Recommendation by:	Remi Chayer				
Proposed Resolution	on:						
	owing C/I=19 dB, de iting C/N is now 14 d	elete the remainder of the dB."	e sentence and re	place by "and t	he effective	e receiver threshold is in	npaired by approxima

Reason for Recommendation: Change rejected as the statement was correct. Improved wording proposed. Actually, a C/N=14 dB + a C/I=20 yields a C/(N+I)=13 dB. If C/I=19 dB, then C/(N+I)=12.8 dB. But I/N=-6 dB is historical and it is not worth quibbling over 0.2 dB.

Comment	t #	81	Comment s	ubmitted by:	Zev		Bogan		Observer
Тур	be	Techn	ical, Non-binding	Starting Pag	ge Number	58	Starting Line Number	Section	6.3.2.1,6.3.2.2

Balloter's Suggested Change:

The requirement for C/I adj=0B for intersystem interference contradicts Recommendation#8 which requires a guard band between systems. If there is a guard band there is no need to define adj channel for inter-system interference.

Balloter's Reason:

Needs clarification

Recommendation: Accepted-Clarified Recommendation by: Remi Chayer and Jack Garrison

Proposed Resolution:

Make changes as follows: P58, Line 4, Following 6.3.2, delete the remainder of the sentence and replace by 'Adjacent Channel Desired to Undesired Signal Level Tolerance'.

P58, Lines 5 to 13, Delete the current text and replace by:

The objective of this requirement is to ensure that an operational receiver is capable of withstanding the exposure of relatively high power adjacent channel carriers. The intent here is to ensure that it is only the unwanted "spillover" emission levels of these carriers that fall into the victim receiver's bandwidth will impact on coexistence and that the victim receiver has been designed so that "breakthrough" of the interference carrier power is not an issue that inhibits coexistence. Further, this requirement must be receptive to "technology evolution" so that future improvements in transmitter unwanted emission suppression are not impeded.

This requirement has a direct impact on coexistence referenced to the estimation of guard band requirements that are discussed extensively elsewhere in this report. The coexistence criteria assumes that only the "spillover" levels of adjacent carrier interference, as defined by NFD, establish the requirements and that the relative signal power of the interference carrier is not an issue. Thus this test can only be indirectly related to the emission level masks and the guard band criteria recommended elsewhere in this report.

The test for this requirement is defined in terms of a Desired Carrier (D) to Undesired Carrier (U) ratio D/U where the U carrier emissions are "clean" and are restricted to be within the frequency range of its specified bandwidth. The D carrier emissions should correspond to the signal characteristics normally expected to be present at the victim receiver input port.

6.3.2.1 Base Station and Subscriber Station D/U Tolerance

The test should be performed with both D and U signals having "like" modulation characteristics and equal transmission bandwidths.

With both the desired D and undesired signals U coupled to the input of the victim D receiver, set the input level of the D signal such that it is 3 dB above the nominally specified BER performance threshold.

6.3.2.1.1 First Adjacent Carrier D/U

Set the U carrier frequency so that it corresponds to a one carrier bandwidth frequency offset and at a D/U = -20 dB.

The measured BER performance of the D receiver should not exceed that specified for nominal threshold performance.

6.3.2.1.2 Second Adjacent Carrier D/U

Set the U carrier frequency so that it corresponds to a two carrier bandwidth frequency offset and at a D/U = -40 dB.

The measured BER performance of the D receiver should not exceed that specified for nominal threshold performance.'

Reason for Recommendation:

Objections noted and accepted. Original text corrected. Noted that the original text would cause confusion.

Comment # 82 Comment submitted by: Michael Hamilton Member Type Editorial Starting Page Number 58 Starting Line Number 5 Section 6.3.2 Balloter's Suggested Change: First adjacent channel tolerance is specified, although use of adjacent channel is contrary to Recommendation 8. Second adjacent channel is contrary to Recommendation 8.								
Balloter's Suggested Change:	Comment # 82	Comment submitted by:	Michael		Hamilton			Member
Balloter's Suggested Change:	Type Editorial	Starting Pa	ae Number	58	Starting Line Number	5	Section	6.3.2
			go		j	-		0.012
		°		fodio	aant ahannal is contrar	u to I	Decommono	lation 9 Cocond adias

Propose 0dB tolerance for first adjacent channel should be justified. Propose 0dB tolerace for second adjacent channel.

Balloter's Reason:

Inconistancy between high level recommendation and requirements.

Recommendation: Accepted-Duplicate Recommendation by: Remi Chayer and Jack Garrison

Proposed Resolution:

See resolution to Comment 81

Reason for Recommendation:

2001-01	-10											IEEE	802.16-01/01
Comment #	83		Comment	submitted by:	Barry		Lewis				Member		
Туре	Editor	ial		Starting Pa	ige Number	59	Starting	Line Numbe	r 18	Section	7.1.1		
Balloter's	Suggested	d Chang	je:										
•				In addition to two tier psfd			scribed	below, two a	alternativ	ve co-ordin	ation procedures are d	escribed in Ar	nexes E (Based
Balloter's	Reason:												
Provides t difference		er with a	a clearer ir	idication that	the proces	sses de	scribed i	in the Anne:	kes are a	alternatives	s with an indication reg	arding the bas	is of the
Recommen	dation: <mark>/</mark>	Accepte	d	Recomme	endation by	: Jack	Garrison						
Proposed	Resolutio	n:											
Reason fo	r Recomr	nendatio	on:										
Comment #	84		Comment	submitted by:	George		Fishel				Member		
Туре	Editor	ial		Starting Pa	ige Number	61	Starting	Line Numbe	r 2	Section	7.1.2		
Balloter's	Suggested	d Chang	je:										
A line or t	wo is nee	eded in	Table 7-2										
Balloter's													
The table	is not co	mplete.											
Recommen	dation: 🦊	ccepte	d	Recomme	endation by	: Jack	Garrison						
Proposed	Resolutio	n:											
Reason fo	r Recomr	nendatio	on:										
The table	borders	are inc	omplete in	the distribute	ed PDF dra	aft.							
Comment #	85		Comment	submitted by:	Barry		Lewis				Member		
Туре	Editor	ial		Starting Pa	ige Number	62	Starting	Line Numbe	r 4	Section	7.3		
Balloter's													
Insert the	words "F	or the p	ourposes c	f the Recom	nendations	s in this	docume	ent, " at the	beginni	ng of the s	econd sentence.		
Balloter's	Reason:												
Helps the	reader to	o under	stand the o	context of the	statements	s in seo	ction 7.3.						
Recommen	dation: 🦊	ccepte	d-Modified	Recomme	endation by	: Jack	Garrison						
Proposed	Resolutio	n:											
See Com	ment 148	3 for im	plementat	ion.									
Reason fo	r Recomr	nendatio	on:										
			0		M/c th		Death				Momber		
Comment #		icol N		submitted by:		60	Roehr		04	A	Member		
Туре				Starting Pa	ge Number	02	Starting	Line Numbe	24	Section	7.4		
Balloter's Delete this			je:										
Balloter's													
		isure" a	and "Verify	' are too vagu	. How is	the op	erator to	(page 63, li	ne 6) "v	erify" that t	here won't be IF cable	problems with	out turning on the
	dation: A	ccepte	d-Modified	Recomme	endation by	Jack	Garrison						
Proposed													
			on text an	d replace by:									

This section identifies that there will be a need for operators to develop a "turn-on" procedural methodology during transmitter activation, the objectives being the avoidance of inadvertent interference generation. The "turn-on" operator is highly encouraged to communicate with other known operators who may be affected. It is expected that operators will independently develop their "turn-on" procedures but it is outside the scope of this document to provide specifics.'

Reason for Recommendation:

Procedures for confirming coexistence at the deployment field engineering level are likely none of our business. They will differ between organizations. Our competency in this area is questionable and likely incomplete. For example, at Line 6, p63, it would be probably be more appropriate to turn on the receiver first. If it is being impaired, then one might conclude that turning on the transmitter will impair others. Further, any reference to IF is outside the scope of this document. We are only dealing with what occurs at the antenna to air interface. Agreement on issues such as this should be dealt with by operator organizations. However, it is quite valid for our document to responsibly note that transmitter "turn-on" has coexistence implications. It is concluded that the section should remain, but in a constrained fashion as proposed.

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Comment #	87	Comment s	submitted by:	Adrian	Florea				Member	
Туре	Editorial		Starting Pag	e Number <mark>63</mark>	3 Starting	Line Number	12	Section	8	
Balloter's Su	uggested Cha	nge:								
Move the er	ntire section	8 at the end	as an Append	lix						
Balloter's R	eason:									
Recommenda	ation: Reject	ed	Recommer	ndation by: P	hil Whitehead					
Proposed Re	esolution:									
Reason for	Recommenda	tion:								
(1) no reas	on was giver	n for the cha								
			ntaining more				body o	of the docu	ment	
(0) 1110 103		o be of sume		be that they e			body c		mont.	
Comment #	88	Comment s	submitted by:		Marks				Member	
Туре	Editorial		Starting Pag	e Number 63	3 Starting	Line Number	39	Section	8.1.2	
	uggested Cha ntence in Lin									
-										
In each freq other specif		assigned for	BWA use, dif	ferent types	of systems m	nay be deploy	yed, so	me confor	ming to IEEE 802.16 sta	indards and some designed to
other speci	lications.									
Balloter's R	eason:									
Editorial; an	nd generalize	es the identifi	ier "802.16.1".							
Recommenda	ation: Accept	ted	Recommen	ndation by: P	hil Whitehead					
Proposed Re	esolution:									
Bassan for	Basammanda	Hon								
	Recommenda									
Comment #	89	Comment s	submitted by:	Barry	Lewis				Member	
Type	Editorial			e Number 66	-	Line Number	1	Section	8.1.6	
	uggested Cha	nge:			•					
		-	e with a new p	aragraph "Fu	urther informa	ation on both	the IS	OP metho	d and the IA method car	be found in ERC Report 99 [2]."
Balloter's R	eason:									
Improved a	ccuracy.									
Recommenda	ation: Accept	ted	Recommer	ndation by: P	hil Whitehead					
Proposed Ro	esolution:									
Reason for	Recommenda	tion:								
Comment #	90	Comment s	submitted by:	Avraham	Freedm	nan			Member	
Туре	Editorial		Starting Pag	e Number 66	6 Starting	Line Number	2	Section	8.1.6	
Balloter's Su	uggested Cha	nge:								
Add referen	ICE TO THE [Draft CEPT/E	RC							
Balloter's R										
Completene	ess									
Recommenda	ation: Accept	ed-Duplicate	Recommer	ndation by: P	hil Whitehead					
Proposed Re		00								
Resolved b	y Comment	89.								
Reason for	Recommenda	tion:								
Comment #	91	Comment s	submitted by:		Whiteh				Member	
Туре	Editorial		Starting Pag	e Number 66	6 Starting	Line Number	2	Section	8.1.6	
	uggested Cha									
	report" at en	u or the sent								
Balloter's Re Missing wor	eason: rd from sente	ence								
			Bacommo	dation by D	hil Whitebood					
	ation: Accept	eu-Dupiicate	necommer	Mation by: P	hil Whitehead					
Proposed Ro Resolved b										
	v Comment	89.								
	y Comment									
Reason for	Recommenda									

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Comment #	92 Co	mment submitted b	y: Barry	Lewis		Member	
Туре	Editorial	Starting	Page Number 67	Starting Line Number	1 Section	8.1.6	
	uggested Change:						
Table 8-1 a	nd associated not	tes would be more	e appropriate in a s	section with its own hea	ading.		
Balloter's Ro		a a tha a sa an an an tala a la a		0.1.0			
			e ISOP method of				
	ation: Accepted-Mo	odified Recom	mendation by: Phil	Whitehead			
Proposed Re		ad of 9.1.6 as foll	0.000				
"8.1.7 Simu	eading after the er	ulations"	ows:				
	ew text as follows		ns and calculations	s undertaken for this re	commended prac	tice. The most appropri	ate method has been selected,
dependent	on the scenario a	nd interference p	ath."				
Renumber	subsequent section	ons, as appropriat	e.				
Reason for	Recommendation:						
Comment #		mment submitted b	y: Zev	Bogan		Observer	
Туре	Editorial	Starting	Page Number 67	Starting Line Number	2 Section	table 8-1	
	uggested Change:	root "multiple int-	rforcell to Impulting	interferere"			
		rect multiple inte	rferes" to "multiple	Interierers			
Balloter's Ro typo	eason:						
		Basar	mendation by: Phil	Whitebood			
Proposed Re	ation: Accepted	necon	mendation by. Phil	Winteneau			
Floposed he	esolution.						
Reason for	Recommendation:						
Comment #		mment submitted b		Fishel		Member	
Туре	Editorial	Starting	Page Number 67	Starting Line Number	2 Section	8.1.6	
	uggested Change: le for Table 8-1 bo	old and center on	paga				
Balloter's Re			page.				
	he rest of the table	es in the documer	nt.				
Becommenda	ation: Accepted	Recom	mendation by: Phil	Whitehead			
Proposed Re							
Reason for	Recommendation:						
	0.5		Demo	Leude		Member	
Comment #	95 Con	mment submitted b	Page Number 67	Lewis Starting Line Number	2 Section	8.1.6 (sic)	
Type		Starting	Page Number 07	Starting Line Number	2 Section	0.1.0 (SIC)	
	uggested Change:	eded between rov	vs 5 and 6 with the	e following entries in ea	ch column respe	ctively:- Hub to Hub; FD	D/TDD; Same area, adjacent
	Monte Carlo; 1 gu			J			
Balloter's Re							
To reflect re	ecently added con	tributions detailed	in sections 8.1.10	0.1 and Annex C.13.			
Recommenda	ation: Accepted-Cl	arified Recom	mendation by: Phil	Whitehead			
Proposed Re							
	1, add new row be Monte Carlo simu			ng entries in each colu	mn respectively;-	Hub to Hub; FDD/TDD;	Same area, adjacent
 , , ,		, gaaa oo					
	Recommendation: ding the word "sin	nulation"					

Comment # 96 Comment submitted by: Philip Whitehead Member	
Type Editorial Starting Page Number 67 Starting Line Number 2 Section Table 8-1	
Balloter's Suggested Change:	
In column 1, change 8th entry to "Hub to hub (multiple interferers)"	
Balloter's Reason:	
Correction of English	
Recommendation: Accepted-Duplicate Recommendation by: Paul Thompson	
Proposed Resolution: Resolved by Comment 93.	
Reason for Recommendation:	
Comment # 97 Comment submitted by: Barry Lewis Member	
Type Technical, Binding Starting Page Number 67 Starting Line Number 8 Section 8.1.6 (sic)	
Balloter's Suggested Change:	
In Note 2 replace the final sentence with the following; "Where channel spacings are considerably different across the frequency block boundary, and	lysis
suggests that one equivalent guard channel may be necessary at the edge of each operator's block."	
Balloter's Reason:	
To be consistent with 8.1.10.1, .2 and .3	
Recommendation: Accepted Recommendation by: Phil Whitehead	
Proposed Resolution:	
Reason for Recommendation:	
Comment # 98 Comment submitted by: Barry Lewis Member	
Type Editorial Starting Page Number 70 Starting Line Number 20 Section 8.1.10.2	
Balloter's Suggested Change:	
Replace "Annex C.3" with "Annexes C.3 and C.13"	
Balloter's Reason:	
Highlights recently added contributions on the issue.	
Proposed Resolution:	
Reason for Recommendation:	
Comment # 99 Comment submitted by: Barry Lewis Member	
Type Editorial Starting Page Number 70 Starting Line Number 36 Section 8.1.10.3	
Balloter's Suggested Change:	
Replace "Annex C.12" with "Annexes C.12 and C.13"	
Balloter's Reason: Highlights recently added contributions on the issue.	
Recommendation: Accepted Recommendation by: Phil Whitehead	
Proposed Resolution:	
Reason for Recommendation:	
Comment # 100 Comment submitted by: Avraham Freedman Member	
Type Technical, Non-binding Starting Page Number 71 Starting Line Number 12 Section 9.1	
Balloter's Suggested Change:	
Add: "Best results would be obtained if full cooperation and common deployment planning is achieved.	
Balloter's Reason:	ratore are
To stress the importance of cooperation and the possibility to achieve better coexistence and higher networks efficiency with common planning. Ope usually reluctant to share information with competing operators. It is important they realize that cooperation is a win-win situation.	alors are
Recommendation: Accepted-Clarified Recommendation by: Remi Chayer	
Proposed Resolution:	
Add at the end of line 12.	

<mark>Туре</mark> Editorial	ubmitted by: George	Fishel	Member	
	Starting Page Number 71	Starting Line Number 41 Secti	on 9.3	
Balloter's Suggested Change:				
A page break is needed after line 40.				
Balloter's Reason:				
So the title of section 9.3 is with the se	ection on the next page.			
Recommendation: Accepted-Clarified	Recommendation by: Remi	Chayer		
Proposed Resolution:				
Join section title with section.				
Reason for Recommendation:				
Page breaks will change with edits; the	here are better means to avoi	id subtitles at bottom of page.		
Comment # 102 Comment su	ubmitted by: George	Fishel	Member	
Type Editorial	Starting Page Number 74	Starting Line Number 39 Secti		
Balloter's Suggested Change:		•••••••••••••••••••••••••••••••••••••••		
A page break is needed after line 38.				
Balloter's Reason:				
So the title of section 9.10 is on the ne	ext page with the section.			
Recommendation: Accepted-Clarified	Recommendation by: Remi	Chaver		
Proposed Resolution:		a sym		
Join section title with section.				
Reason for Recommendation: Page breaks will change with edits; the	here are better means to avoi	id subtitles at bottom of page		
r age breaks will change with edits, it	here are beller means to avoi	la sublities at bottom of page.		
Comment # 103 Comment su	ubmitted by: George	Fishel	Member	
Type Editorial	Starting Page Number 75	Starting Line Number 8 Secti	on 9.10.1	
Balloter's Suggested Change:				
Change the word stroke" to "strike"."				
Balloter's Reason:				
Word is spelled wrong.				
Recommendation: Accepted	Recommendation by: Remi	Chayer		
Proposed Resolution:				
Proposed Resolution: Reason for Recommendation:				
Reason for Recommendation:	ubmitted by: George	Fishel	Member	
Reason for Recommendation:	ubmitted by: George Starting Page Number 78	Fishel Starting Line Number 38 Secti		
Reason for Recommendation:				
Reason for Recommendation: Comment # 104 Comment su Type Editorial	Starting Page Number 78			
Reason for Recommendation: Comment # 104 Comment su Type Editorial Balloter's Suggested Change:	Starting Page Number 78			
Reason for Recommendation: Comment # 104 Comment surgested Comment surgested Change: Balloter's Suggested Change: Make the title for Figure A.1 bold and	Starting Page Number 78 center on page.			
Reason for Recommendation: Comment # 104 Comment surgested co	Starting Page Number 78 center on page.	Starting Line Number 38 Secti		
Reason for Recommendation: Comment # 104 Comment survey Type Editorial Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and	Starting Page Number 78 center on page.	Starting Line Number 38 Secti		
Reason for Recommendation: Comment # 104 Comment surrows Type Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and Recommendation: Accepted-Clarified	Starting Page Number 78 center on page. d centered in the document. Recommendation by: Remi	Starting Line Number 38 Secti		
Reason for Recommendation: Comment # 104 Comment survey Type Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and Recommendation: Accepted-Clarified Proposed Resolution: In line #38, center the table title and to	Starting Page Number 78 center on page. d centered in the document. Recommendation by: Remi	Starting Line Number 38 Secti		
Reason for Recommendation: Comment # 104 Comment survey Type Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and Recommendation: Accepted-Clarified Proposed Resolution:	Starting Page Number 78 center on page.	Starting Line Number 38 Section		
Reason for Recommendation: Comment # 104 Comment survey Type Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and Recommendation: Accepted-Clarified Proposed Resolution: In line #38, center the table title and to Reason for Recommendation:	Starting Page Number 78 center on page.	Starting Line Number 38 Section		
Reason for Recommendation: Comment # 104 Comment survey Type Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and Recommendation: Accepted-Clarified Proposed Resolution: In line #38, center the table title and to Reason for Recommendation: Format consistency. Note that commendation:	Starting Page Number 78 center on page.	Starting Line Number 38 Secti Chayer ure A.1.	on A.1.1	
Reason for Recommendation: Comment # 104 Comment survey Type Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and Recommendation: Accepted-Clarified Proposed Resolution: In line #38, center the table title and to Reason for Recommendation: Format consistency. Note that commendation: Comment # 105 Comment #	Starting Page Number 78 center on page.	Starting Line Number 38 Secti Chayer ure A.1. Fishel	on A.1.1 Member	
Reason for Recommendation: Comment # 104 Comment surrows Type Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and Recommendation: Accepted-Clarified Proposed Resolution: In line #38, center the table title and u Reason for Recommendation: Format consistency. Note that commendation: Comment # 105 Comment # 105	Starting Page Number 78 center on page.	Starting Line Number 38 Secti Chayer ure A.1.	on A.1.1 Member	
Reason for Recommendation: Comment # 104 Comment surrows Type Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and Recommendation: Accepted-Clarified Proposed Resolution: In line #38, center the table title and u Reason for Recommendation: Format consistency. Note that commendation: Comment # 105 Comment # 105 Balloter's Suggested Change:	Starting Page Number 78 center on page.	Starting Line Number 38 Secti Chayer ure A.1. Fishel	on A.1.1 Member	
Reason for Recommendation: Comment # 104 Comment survey Type Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and Recommendation: Accepted-Clarified Proposed Resolution: In line #38, center the table title and to Reason for Recommendation: Format consistency. Note that commendation: Format consistency. Note that commendation: Comment # 105 Comment # 105 Suggested Change: Add a page break after line 41.	Starting Page Number 78 center on page.	Starting Line Number 38 Secti Chayer ure A.1. Fishel	on A.1.1 Member	
Reason for Recommendation: Comment # 104 Comment survey Type Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and Recommendation: Accepted-Clarified Proposed Resolution: In line #38, center the table title and to Reason for Recommendation: Format consistency. Note that commendation: Format consistency. Note that commendation: Comment # 105 Comment # 105 Comment # 105 Balloter's Suggested Change: Add a page break after line 41. Balloter's Reason:	Starting Page Number 78 center on page.	Starting Line Number 38 Secti Chayer ure A.1. Fishel	on A.1.1 Member	
Reason for Recommendation: Comment # 104 Comment surrows Type Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and Balloter's Reason: The title for other figures are bold and Recommendation: Accepted-Clarified Proposed Resolution: In line #38, center the table title and u Reason for Recommendation: Format consistency. Note that commendation: Comment # 105 Comment # 105 Comment # 105 Balloter's Suggested Change: Add a page break after line 41. Balloter's Reason: So the title for section A.2 is with the section A.3 is	Starting Page Number 78 center on page.	Starting Line Number 38 Section Chayer ure A.1. Fishel Starting Line Number 42 Section	on A.1.1 Member	
Reason for Recommendation: Comment # 104 Comment surrows Type Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and Balloter's Reason: The title for other figures are bold and Recommendation: Accepted-Clarified Proposed Resolution: In line #38, center the table title and u Reason for Recommendation: Format consistency. Note that commendation: Format consistency. Note that commendation: Type Editorial Balloter's Suggested Change: Add a page break after line 41. Balloter's Reason: So the title for section A.2 is with the sectin A.2 is with the section A.2 is with the sec	Starting Page Number 78 center on page.	Starting Line Number 38 Section Chayer ure A.1. Fishel Starting Line Number 42 Section	on A.1.1 Member	
Reason for Recommendation: Comment # 104 Comment surrows Type Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and Balloter's Reason: The title for other figures are bold and Recommendation: Accepted-Clarified Proposed Resolution: In line #38, center the table title and u Reason for Recommendation: Format consistency. Note that commendation: Format consistency. Note that commendation: Editorial Balloter's Suggested Change: Add a page break after line 41. Balloter's Reason: So the title for section A.2 is with the section A.2 is wi	Starting Page Number 78 center on page.	Starting Line Number 38 Section Chayer ure A.1. Fishel Starting Line Number 42 Section	on A.1.1 Member	
Reason for Recommendation: Comment # 104 Comment surrows Type Editorial Balloter's Suggested Change: Make the title for Figure A.1 bold and Balloter's Reason: The title for other figures are bold and Balloter's Reason: The title for other figures are bold and Recommendation: Accepted-Clarified Proposed Resolution: In line #38, center the table title and u Reason for Recommendation: Format consistency. Note that commendation: Format consistency. Note that commendation: Type Editorial Balloter's Suggested Change: Add a page break after line 41. Balloter's Reason: So the title for section A.2 is with the sectin A.2 is with the section A.2 is with the sec	Starting Page Number 78 center on page.	Starting Line Number 38 Section Chayer ure A.1. Fishel Starting Line Number 42 Section	on A.1.1 Member	

Comment #	106	Comment	submitted by:	Avraham		Freedman				Member
Туре	Editoria	al	Starting Pag	ge Number	84 .	Starting Line N	Number 9	Secti	on	C.1
Balloter's Su	ggested	Change:								
. .		density (pfd) to d also in p. 85 l			sity (psfo	d)"				
Balloter's Re	eason:									
According to	o the un	its, and the pres	ented results,	it is the psl	d which	is being pres	sented.			
Recommenda	ation: Ac	cepted	Recomme	ndation by:	Barry L	Lewis				
Proposed Re	solution	:								
Note: Chec	k docum	nent globally for	consistency (a	is in Comm	nent 136	6). Exclude An	nnex F pe	r Comment	138	3.
Reason for	Recomm	endation:								
<u> </u>										
Comment #	107	Comment	submitted by:	George		Fishel			_	Member
Comment # Type	107 Editoria		submitted by: Starting Pag		84 \$	Fishel Starting Line N	Number 2	2 Section	on	Member C.1
	Editoria	al			84 క		Number 2	2 Section	on	
Type Balloter's Su	Editoria ggested	al			84 క		Number 2	2 Section	on	
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Type Balloter's Su Make the tit Balloter's Re	Editoria Iggested le for Fig eason:	al Change:	Starting Pag	ge Number	84 \$		lumber 2	2 Secti	on	
Type Balloter's Su Make the tit Balloter's Re	Editoria loggested le for Fig eason: ame as	al Change: gure C.1 bold. other figures in	Starting Pag	ge Number		Starting Line N	Number 2	2 Secti	on	
Type Balloter's Su Make the tit Balloter's Re So it's the s	Editoria aggested le for Fig eason: ame as ation: Ag	al Change: gure C.1 bold. other figures in ccepted	Starting Pag	ge Number		Starting Line N	lumber 2	2 Section	on	

Comment #	108	Comment su	ubmitted by:	Avraham		Freedman			Member
Туре	Technic	cal, Non-binding	Starting Pag	ge Number	86 s	tarting Line Number	1	Section	С

Balloter's Suggested Change:

The simulation descriptions, in general, do not give enough details. The range of parameters taken in the simulations such as the cell sizes, the sector sizes, frequency sizes, types of antenna etc. The reuslts are overly qualitativc. Few numerical measures (if any) were given. For example, in C.1 instead of "the cumulative distribution curves show negligible exposures.." a numerical indication of how negligible (0.1%, 1%, 10%) would add information to the reader. As those are obviously simulations taken from other other sources, it would be worthwhile to reference the sources, so the intersted reader rpobe further.

Balloter's Reason:

To improve the quality of the annex.

Recommendation: Accepted-Clarified Recommendation by: Barry Lewis

Proposed Resolution:

Line 3, p84, Insert the following "For the simulations described in Sections C1 to C3 typical BWA 26 GHz transmission parameters, as identified in Section 6.1.1, were employed. For ITU rain region K, these result in a maximum cell radius of R=3.6 km and a corresponding rain fade margin of 25 dB. A clear sky cell edge ATPC of 15-20 dB was employed for the TS to CS interference analysis. As subsequently identified, unwanted emissions were specified to be -20 dBc at a 1'st adjacent carrier flanking and -49 dBc at a 2'nd adjacent carrier flanking. These values correspond to a numerical integration of the power within the adjacent channel bandwidth based on the ETSI Type B emissions mask specified in [6]. For simulations that take the impact of correlated/uncorrelated rain fading into consideration, the diameter of a rain cell was specified to be 2.4 km. This is in accordance with the rain cell model described in ITU-R recommendation P.452-2 [28]. This model assumes a rain cell to be circular with a uniform rain rate within its diameter. Using this model, the relative rain loss of both a victim and an interference transmission vector can be estimated. The simulations described in Sections C4 to C7 employed comparable transmission criteria to that described above, with the exception that the emissions coupling from a 2'nd adjacent carrier was -54 dBc." ----- New paragraph, insert the following "Both ETSI Point-to-Multipoint Antenna RPE masks [7], [8] and the IEEE RPE masks defined in Section 6.2 were employed in the simulations." -----Delete Lines 13,14,15 p85 and replace with the following " Typically, the simulation results indicate that at CS separation distances of less than 40 km, 7-10% of deployments will require coordination. Beyond 40 km, there were no exposures that exceeded the -114 dBW/MHz/m^2 psfd trigger threshold. These simulations assumed an LOS coupling mechanism of the interference signal vectors. When a distance proportional random blockage algorithm (80% @ 60 km) was added to the simulations, the psfd coordination requirement reduced to 2-4% of the interference exposures at less than a CS separation distance of 40 km. These prior conclusions are of course conditioned on the transmission parameters employed in the simulations. Increased transmit EIRP would have a direct effect on the coordination distance requirements." ------ Line 16, p85, Preceed the existing sentence with the following " The simulation results indicate that, in general, interference coordination requirements have a low senstivity to antenna sidelobe RPE beyond the main lobe. One exception was found to be the ETSI CS1 antenna." ----Line 19, p85, While antennas with excellent sidelobe suppression were not identified as an absolute requirement for this coexistence scenario, they may be a requirement for control of an operators intra-system interference control. However, the specification of these requirements is outside the scope of this document."-----Lines 5,6,7,8. p86, Delete the sentence beginning with "The most severe......". Line 13, p86, Add the word "parameters" following transmission. ---- Line 14, p87. Following the comma, delete the remainder of the sentence and replace by "based on the transmission geometry that establishes the distance within the rain cell that the interference vector experiences rain attenuation.".---- Lines 23 to 31, p87, Delete all of this section text and replace by:----Comment 1 "The simulation results for a 1'st adjacent flanking (zero guard band) were unsatisfactory. Under clear sky conditions, the C/I impairment was found to be distance dependant and ranged from 2% to 10% at a C/I=19 dB. At a C/I=25 dB, the impairment range extended from 3% to 30%. The impairment was identified to be distance dependent, with the worst cases occuring at small CS-CS separation distances. The minimum separation distance examined was 0.3 km while the maximum was 2 km. Under rain fading conditions, the simulation results became significantly more severe. Here, the simulations identified that in excess of 20% of the exposures would experience a C/I<19 dB and that in excess of 30% of the exposures would experience a C/I< 25 dB. Worst case interference estimates were found to occur at CS separation distances of the order of 0.6R. This is consistent with the simulation conclusions described in Section C.4 following." ---- Comment 2 "As expected, the inclusion of a one carrier bandwidth guard band demonstrates a significant improvement in terms of the probability of C/I impairment. Under rain faded conditions, worst case C/I< 19 dB exposures are less than 2% and for a C/I<25 dB are less than 4%. As with the simulation results described in Section C.1 above, the C/I performance was found to be relatively insensitive to antenna RPE outside the main lobe.".---- Lines 6,7,8,9,10, p89. Delete the existing text and replace by -----Comment 1 "As with the CS to TS case discussed above. interference levels were found to be unsatisfactory in the absence of a guard band. C/l impairment probability was found to be comparable to the results identified in Section C.2 for both clear sky and rain faded system scenarios. Similar to the preceeding discussions, antenna RPE characteristics outside the main lobe did not introduce a significant change in performance estimation results. All of the preceeding excludes consideration of the ETSI CS1 antenna mask as it was not considered subsequent to simulation results described in Section C.1.".

Reason for Recommendation:

Improved detailed description of the simulations as requested. If it can be confirmed that the detailed simulation contributions on which Annex C is based will not be junked to that great contribution bin in the sky, then each set of simulations in Annex C should and can have an explicit contribution reference. However, historically, with standards documents, that is not what happens with contributions. They get trashed and, all you get is what you see; the final output document. So, if in doubt, dump them off the net now.

Comment #	109	Comment su	ubmitted by:	George		Fishel				Member
Туре	Editor	ial	Starting Pa	ge Number	86	Starting Li	ne Number	19	Section	C.1
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Comment #	110		Comment	submitted by	Avraham		Freedman			Member	
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Comment #	115	;	Comment s	ubmitted by:	Avraham		Freedr	man			Member		
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Reason for Recommendation:

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Comment #	120	Comment	submitted by:	George		Fishel			Member		
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Comment #	121	Comment	submitted by:	Philip		Whitehead			Member	1	
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Balloter's Si			Ū	•							
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Comment #	122	Comment	submitted by:	Philip		Whitehead			Member		
Туре	Editori	al	Starting Pa	ge Number	96	Starting Line Numbe	14	Section	Simulation results		
Balloter's S	uggested	Change:									
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Delete "[40	kmj" and	d replace with "	35km".								
Reason for	Recomm	endation:									
Comment #	123	Comment	submitted by:	Avraham		Freedman			Member		
Туре	Editori		Starting Pa	ge Number	98	Starting Line Numbe	39	Section	C.13		
Balloter's Su		Change:									
Change title "General so		same area, adja	acent frequenc	V"							
6 - I - I -				-							
						n the same area, in a sity mesh to another		frequency	bands. It analyzes the	cases of PMP CS to	PMP CS,
Balloter's R	leason:										
The purpos	e and so	cope of the simu	ulation was not	clear to th	ne read	ler.					
Recommend	ation: A	ccepted-Clarified	Recomme	endation by	: Barry	/ Lewis					
Proposed R	esolution	:									
Add text pr	roposed	as first paragra	aph under head	ding.							
Reason for	Becomm	endation:									

2001-01-	10								IEEE 802.16-01/01
Comment #	124	Comment s	ubmitted by:	Avraham	Freedman			Member	
Туре	Editorial		Starting Pag	<mark>ge Number</mark> 99	Starting Line	Number 28	Section	C.13	
Balloter's S	uggested Ch	ange:							
		tion is in line v ion is in line w							
Balloter's F	Reason:								
		jection is not u e proper figure		ocument.					
Recommend	lation: Acce	oted-Clarified	Recomme	ndation by: Barr	y Lewis				
Proposed R		S 111 III							
				fied for ultimate		ine transmitte	r emission r	nasks of Figure C.10 we	ere assumed, based upon
Page 100, dBc floor".	line 2: Dele	te the figure C	.10 title from	"NFR curves"	onwards, and	replace with	"Transmitter	masks based on EN 30	1 213 spectrum masks and -70
In Figure C	C.10, replace	e the y-axis lat	oel with "Atter	nuation (dBc)".					
Reason for	Recommend	ation:							
Commont #	125	Comment s	ubmitted by:	Avraham	Freedman			Member	
Comment #	Editorial	oonment e		ge Number 100	Starting Line	Number 1	Section	C.13	
	uggested Ch	ange:	- j		Ŭ				
•		ction" to Net f		ation" in figure (C.10				
Balloter's F	Reason:								
The term N	IFD is used	throughout the	e document a	nd not NFR					
Recommend	lation: Acce	oted-Duplicate	Recomme	ndation by: Barr	y Lewis				
Proposed R									
See resolu	ition of Com	ment 124. Not	te: means line	e 1, not 11.					
Reason for	Recommend	ation:							
Comment #	126	Comment s	ubmitted by:	George	Fishel			Member	
Туре	Editorial			ge Number 100	Starting Line	Number 2	Section	C.10	
	uggested Ch	ange:	Ŭ.	-					
Make the ti	itle for Figur	e C.10 and Ta	ble C.1 Bold.						
Balloter's F									
So they are	e the same a	as all the other	r figures and	tables in the doo	cument.				
Recommend	lation: Acce	pted	Recomme	ndation by: Barr	y Lewis				
Proposed R	Resolution:								
Reason for	Recommend	ation:							
Comment #	127	Comment s	ubmitted by:	Barry	Lewis			Member	
Type	Editorial			ge Number 100	Starting Line	Number 9	Section	C.13	
	uggested Ch	ange:	.						
Table C.1;I respectively	Insert a new y:- "Identica	left hand colu "; "Non-idention	cal (Ratio 4:1		l (Ratio 4:1)".				ading insert the following equency width" and replace the
Balloter's F	Reason:								
Clarification	n. The curre	nt first column	which is not	headed, contair	ns a mixture of	channel space	cing scenari	os and guard band widtl	าร.
Recommend	lation: Acce	pted	Recomme	ndation by: Barr	y Lewis				
Proposed R	Resolution:								
Reason for	Recommend	ation:							

Comment #	128 C	omment sul	bmitted by:	Avraham	Freedman		Member	
Туре	Editorial		Starting Pa	<mark>ige Number</mark> 102	Starting Line Number	6 Section	D.14	
	uggested Change:							
Change title	e to D.1							
Balloter's R	eason:							
No reason t	o start with D. 14	1						
Recommend	ation: Accepted-N	Aodified	Recomme	endation by: Barry	y Lewis			
Proposed R	esolution:							
Also, on pa	ge 106, change	D.15 to D.3	2 and D.16	to D.3.				
Reason for	Recommendation:							
Comment #	129 C	omment sul	bmitted by:	George	Fishel		Member	
Type	Editorial			ige Number 102	Starting Line Number	26 Section	D.1	
	uggested Change:		olulling i u	.90	,			
	le for Figure D.1							
Balloter's R	-							
	ame as all the o	ther tables	in the docu	ument.				
Becommend	ation: Accepted		Recomme	endation by: Barry	v Lewis			
Proposed R								
inoposed in								
Reason for	Recommendation:							
Comment #	130 C	omment sul	bmitted by:	George	Fishel		Member	
Туре	Editorial		Starting Pa	ige Number 103	Starting Line Number	3 Section	D.1	
	uggested Change:							
So it's the s	ame as all the o	ther tables	in the docu	ument.				
Balloter's R								
So it's in the	e correct place.							
Recommend	ation: Accepted-0	Clarified	Recomme	endation by: Barry	y Lewis			
Proposed R								
Ensure tab	le D.1 is complet	te on one p	page.					
	Recommendation:							
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Comment #	131 C	omment sul	bmitted by:	George	Fishel		Member	
Туре	Editorial		Starting Pa	ige Number 105	Starting Line Number	1 Section		
Balloter's Su	uggested Change:							
Remove pa	ge 105 from doc	ument.						
Balloter's R	eason:							
Nothing on	it.							
Recommend	ation: Accepted		Recomme	endation by: Barry	y Lewis			
Proposed R	esolution:							
Reason for	Recommendation:							
Comment #		omment sul	bmitted by:		Freedman		Member	
Туре	Editorial		Starting Pa	ige Number 106	Starting Line Number	15 Section	D.16	
Balloter's Su Delete the s	uggested Change: section							
Balloter's R	eason:							
Incomplete								
Recommend	ation: Rejected		Recomme	endation by: Barry	y Lewis			
Proposed R	esolution:							
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	Recommendation:							
	out to complete i	paragraph.						
	out to complete p	baragraph.						

2001-01-	10				IEEE 802.16-01/01
Comment #	133	Comment submitted by: Barry	Lewis	Member	
Туре	Editorial	Starting Page Number 106	Starting Line Number 19 Section	Annex D	

Balloter's Suggested Change: Insert: D.17 Radiocommunications Agency (UK-RA)

The UK-RA has commissioned technical studies dealing with BFWA inter-operator co-existence at 28 and 42GHz. Two reports titled "BFWA co-existence at 28 & 42GHz" and a companion extended study are publically available from the RA Web Site under the Business Unit/Research - Extra-Mural R&D project section (www.radio.gov.uk/busunit/research/extramen.htm.). The work studied the issues from the point of view of a regulator wishing to put in place co-existence guidelines for BFWA operators to be licensed in the UK. It addresses both interference scenarios and provides recommendations for psfd trigger levels and guard frequencies based upon tolerable I/N of -10dB and -6dB.

Balloter's Reason:

Completeness. The annex refers to work carried out by other bodies which can usefully be considered alongside the recommendations and conclusions of the practice document. The UK-RA is another body that has carried out work and has contributed to the practice document.

Recommendation by: Barry Lewis Recommendation: Accepted-Modified

Proposed Resolution:

Insert: "D.4 Radiocommunications Agency (UK-RA)

The UK-RA has commissioned technical studies dealing with BFWA inter-operator co-existence at 28 and 42GHz. A report entitled "BFWA coexistence at 28 & 42 GHz" and a companion extended study are publicly available from the RA Web Site under the Business Unit/Research - Extra-Mural R&D project section <http://www.radio.gov.uk/busunit/research/extramen.htm>. The work studied the issues from the point of view of a regulator wishing to put in place coexistence guidelines for BFWA operators to be licensed in the UK. It addresses both interference scenarios and provides recommendations for psfd trigger levels and guard frequencies based upon tolerable I/N of -10 dB and -6 dB.'

Reaso	n for	Recom	nendati	on:							
Comme	ent#	134		Comment	submitted by:	Barry		Lewis			Member
Т	уре	Editor	ial		Starting Pag	ge Number	106	Starting Line Number	19	Section	Annex D

Balloter's Suggested Change:

Insert: D.18 CEPT/ERC

The European CEPT has carried out work within its Spectrum Engineering Working Group concerning the co-existence of FWA cells in the 26/28GHz bands. The completed report, ERC Report 099 [2], is available from the European Radiocommunication Office at www.ero.dk. The report considers both interference scenarios and concludes with recommendations regarding quard frequencies and separation distances. The concepts of Interference Scenario Occurrence Probability (ISOP) and Interfered Area (IA) feature extensively in the analyses documented.

Balloter's Reason:

Completeness. The annex refers to work carried out by other bodies which can usefully be considered alongside the recommendations and conclusions of the practice document. The CEPT/ERC is another body that has carried out work which has contributed to the practice document.

Recommenda	ation:	Accepted	i	Recomme	ndation by: B	arry I	Lewis				
Proposed Re	esolutio	on:									
Reason for	Recom	mendatio	n:								
Comment #	135		Comment su	ubmitted by:	George		Fishel			Member	
Туре	Edito	rial		Starting Pag	ge Number 10)7	Starting Line Number	4	Section		
Balloter's Su	uggeste	ed Chang	e:								
Correct sect	tion he	eadings a	and add nur	mbers so the	ey are the san	ne as	s other parts of docu	ment e	ending on p	age 111.	
Balloter's Re	eason:										
So they are	the sa	ame as o	ther parts o	of document.							
Recommenda	ation:	Accepted	i	Recomme	ndation by: B	arry I	Lewis				
Proposed Re	esolutio	on:									
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Reason for	несоп	imendatio	n:								
Comment #	136		Comment su	ubmitted by:	Avraham		Freedman			Member	
	Edito		Comment of		ge Number 10	19	Starting Line Number	10	Section	E	
Balloter's Su			0.	oturting ru			y	10	ocotion	-	
Change "pfo		-									
Balloter's Re											
		ised thro	ughout the	document.	As this is an ir	nport	ted document, it mig	ht be b	petter to add	a footnote indicating th	nat pfd in the annex is psfd
Recommenda	ation:	Accepted	I-Clarified	Recomme	ndation by: B	arry I	Lewis				
Proposed Re	esolutio	on:									
Make chang	ge req	uested .									
Also, on pag	ge 10	9 line 10	insert the v	vord "Spectr	al" after "Pow	er"					
Note: Checl	k docı	ument glo	obally for co	onsistency (a	as in Commen	it 106	6). Exclude Annex F	per Co	omment 13	3.	
Reason for	Recom	mendatio	n:								

Comment #									IEEE 802.16-01/01
	137	Comment	submitted by:	Avraham	Freedman			Member	
Туре	Editorial		Starting Pag	ge Number 10	9 Starting Line N	umber 38	Section	E	
	uggested Ch	ange: ^r Annex X or	doloto it						
FIOVICE a F	elerence ior	Annex A Or							
Balloter's F	Reason:								
Annex E re	fers to Anne	ex X (also in l	p. 110 l. 3) and	Annex 1 (p.11	10 l.14), which is n	ot part of the	e document		
Recommend	lation: Acce	pted-Clarified	Recomme	ndation by: Ba	rry Lewis				
Proposed R			FA						HILLING CONTRACTOR STREET
								before the words "ante	e "detailed in [Annex X]" with enna pattern".
Reason for	Recommend	ation:							
Comment #	138	Comment	submitted by:	Avraham	Freedman			Member	
Туре	Editorial		Starting Pag	ge Number 112	2 Starting Line N	umber <mark>4</mark>	Section	F	
	uggested Ch	ange:							
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Balloter's F		throughout th	e document.	As this is an im	ported document.	it might be t	petter to add	d a footnote indicating t	hat pfd in the Annex is psfd
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Proposed R									
			arting on Line 6 Ientical in princ		with the dual psf	d metric utiliz	red in Reco	mmendation 6 of Secti	on 4.2 and the discussion of
					ed in a bandwidth				
See also C	Comments 1	06 and 136.							
Reason for	Recommend	ation							
			cific recommen	ded change.					
Comment #	139	Comment	submitted by:	George	Fishel			Member	
Туре	Editorial								
			Starting Pag	ge Number 112	2 Starting Line N	umber 16	Section		
	uggested Ch								
Repair left	margin and							nainder of Annex F.	
Repair left Balloter's F	margin and Reason:	add numbere	ed sections like	e other parts of				nainder of Annex F.	
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Comment #	141	Comment s	ubmitted by:	Barry		Lewis				Member		
Туре	Editorial		Starting Pa	age Number	116	Starting	Line Number	5	Section	Annex G		
	uggested Chan											
insen: Rep	ort 099" after '	CEPT/ERC.	·									
Balloter's R	eason:											
Clarification	. Report now	formally app	proved and	numbered.								
Recommenda	ation: Accepte	ed	Recomm	endation by:	Jack (Garrison						
Proposed Re	esolution:											
Reason for	Recommendati	on:										
Comment #	142	Comment s	ubmitted by:	Jose		Costa				Member		
Туре	Editorial		Starting Pa	age Number	116	Starting	Line Number	37	Section	Annex G - Ref. [17]		
	uggested Chan				_							
	D-9D/68-E" by	/ "9/BL/1" Se	ee http://ww	w.itu.int/itud	oc/itu-r	/draftpu	ib/f/index.htn	nt for fur	ther details	S.		
Balloter's Re Update the	<mark>eason:</mark> ITU-R docum	ent number.										
	ation: Accepte		Recomm	endation by:	Jack (Garrison						
Proposed Re		u-mourrieu			ouon							
	document nu	Imber to "IT	U -R 9/BL/1	Draft new R	lec. F.[l	Doc.9/2]]"					
Delete the r	remaining tex	t on this line	so that the	begins as "T	Technic	cal and .	"					
Reason for	Recommendati	on:										
Comment #	143	Comment s	ubmitted by:	Jose		Costa				Member		
Туре	Editorial		Starting Pa	age Number	117	Starting	Line Number	7	Section	Annex G - Ref. [20]		
	uggested Chan	-			le e Chu		a al a colla factoria di Caso	for a la ser	datalla			
	[AD/9D]" by "	F.1249-1". S	see http://wv	ww.itu.int/ituo	doc/itu-	·r/rec/t/ir	ndex.ntml for	turtner	details.			
Balloter's Re Update the	ITU-R Recom	mendation r	number.									
Recommenda	ation: Accepte	ed	Recomme	endation by:	Jack (Garrison						
Proposed Re	esolution:											
Reason for	Recommendati	on:										
Comment #	144	Comment s	ubmitted by:	Jose		Costa				Member		
Туре	Editorial		Starting Pa	age Number	117	Starting	Line Number	22	Section	Annex G - Ref. [28]		
Need to ver		Recommer								ed: "Prediction procedur . Other relevant ITU-R		
P.838-1 "Sc	ecific attenua	ation model f	or rain for u	use in predic	tion me	ethods"						
	ain height mo											
See http://w	ww.itu.int/ituc	loc/itu-r/rec/p	o/index.html	for further d	letails.							
Balloter's R	eason:											
To use the	proper referer	nces.										
Recommenda Proposed Re	ation: Accepte	d-Modified	Recomm	endation by:	Jack (Garrison						
	erence # is IT	U-R P.452-2	with the title	e as stated ir	n the co	omment	t.					
Reason for	Recommendati	on:										

0								
Comment #	145	Comment s	submitted by:	Barry	Lewis		Member	
Туре	Editorial		Starting Pag	<mark>ge Number</mark> 117	Starting Line Number 22	Section	Annex G	
Insert: "Pr		edure for the	Evaluation of	Microwave Inter	ference between Stations o	n the Surfa	ce of the Earth at Frequ	encies above about 0.7GHz" in
place of "[TBD] Rain cel	I models."						
Balloter's Correct tit	Reason: le for Recomm	endation ITU	J-R P.452					
				adation for the	0			
	dation: Accep	ted-Duplicate	Recomme	ndation by: Jack	Garrison			
	Resolution:							
Use exac	t title as in Co	mment 144.						
Reason fo	r Recommenda	tion:						
Comment #	146	Comment s	submitted by:	Barry	Lewis		Member	
Туре	Editorial		Starting Pag	<mark>ge Number</mark> 117	Starting Line Number 22	Section	Annex G	
Balloter's	Suggested Cha	nge:						
	9] ITU-R Rec	-	n F.758-2 "Co	onsiderations in t	he Development of Criteria	for Sharing	between the Terrestrial	Fixed Service and Other
Balloter's	Reason:							
Conseque	ntial change i	f the previou	s comment is	accepted.				
Recommen	dation: Accep	ted	Recomme	ndation by: Jack	Garrison			
	Resolution:							
Floposeu	Resolution.							
Reason fo	r Recommenda	tion:						
Coupled t	to Comment 3	57						
	4.47	Commont	when itted have	loso	Costa		Member	
Comment #		Comment	submitted by:					
Туре	Editorial		Starting Pag	ge Number 117	Starting Line Number 23	Section	Annex G - Ref. [29]	
Balloter's	Suggested Cha	nge:						
Add: [29]	Recommenda	tion ITU-R F.	1399. "Vocab	ulary of terms for	r wireless access"			
			,					
Balloter's			,					
Balloter's For compl	Reason:							
For compl	Reason: eteness.			ndation by: Jack				
For compl	Reason: eteness. dation: Accep			ndation by: Jack				
For compl Recommen Proposed	Reason: eteness. dation: Accep Resolution:	ted-Clarified	Recomme		Garrison	nte [30] emp	lov comparable definitio	ins and acronyms to those that
For compl Recommen Proposed Add Refe	Reason: eteness. dation: Accep Resolution: rence as [30].	ted-Clarified Also add a r	Recomme new paragrapi	h at p11, Line15	Garrison "Other standards documer	nts [30] emp	loy comparable definitic	ns and acronyms to those that
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