	Comment	t Resolutions for Approval ir	IEEE 802.16 Recircu	ulation Bal	lot #2b (2001-02-07 to 2001-02-17)
Comment #	2a-01	Comment submitted by: Roger	Marks		Member
Туре	Editorial	Starting Page Number	Starting Line Number	Section	Global
Balloter's S	uggested Chan	ge:			
In resolutio	n of Comment	t 3, change "TS/Central Station (CS)" t	o "BTS/Central Station (CS)	and "TS/CS"	" to "BTS/CS"
Balloter's R					
		anges in the resolution to be identical t on never appear in the text except with			e that this was the intent of the resolution, since the two ritten would result in a double letter B.
Decision:	Accepte	ed Recommendation by: T	G2, Session #11		
Proposed R	esolution:				
Comment #	2a-02	Comment submitted by: Roger	Marks		Member
Туре	Editorial	Starting Page Number	Starting Line Number	Section	Global
Change "C Balloter's R The explan	eason: ation for leavi	bally, as proposed in Comment 3			valent. Page 28 line 5 does not truly distinguish the two; listinction.
			· · · · ·		
Decision:		d - Modified Recommendation by: To	az, session #11		
	ge except wh	ere CS refers to channel separation of xternal source.	r channel spacing or where	CS is	

IEEE 802.16-01/06

Reason for Recommendation:

## IEEE 802.16-01/06

Comment #	2a-03	Comment submitted by:	Muya	Wachira		Member
Туре	Editorial	Starting Pag	ge Number S	Starting Line Number	Section	

Balloter's Suggested Change:

Ballot 1 comment #1 changed "Mbps" to "Mbit/s" and was accepted. Amend the resolution to be: Change the units to "Mb/s". If possible search for symbols for other units for consistency with official IEEE usage.

#### Balloter's Reason:

According to ANSI/IEEE Std 260.1-1993, American National Standard letter Symbol for Measurement (SI Units, Customary Inch-Pound Units, and Certain Other Units, Table 3, the symbol for bit per second is b/s.

Decision: Rejected Recommendation by: TG2, Session #11

Proposed Resolution:

Reason for Recommendation: International definition is Mbit/s.

## IEEE 802.16-01/06

Comment #	2a-04	Comment submitted b	y: Muya	Wachira		Member		
Туре	Editorial	Starting	Page Number	Starting Line Number	Section	Various editorial		
	uggested Chang							
1.page 17 l	n 13 Replace t	the word "Radio"with	"Radiocommunica	tions Sector"				
2.p 58 ln 16	o replace "&" w	ith "add"						
3. p 59 ln 26	6 Replace "Ref	fer to the next section	" with "Refer to the	section 7.1.2"				
4 p 60 ln 5	Use proper cap	otion style. In the tabl	le, use the same fo	nt sizes in all cells for consis	stency, and c	center the text.		
5. p 61 ln2 ln the column headings, move "(m)" to the end of the text to make clear that radio is not 2 meters above clutter Balloter's Reason:								

#### Correct term

Decision: Accepted - Clarified Recommendation by: TG2, Session #11

**Proposed Resolution:** 

2; "add" assumed to mean "and"

3; "Refer to section 7.1.2"

5; also make similar change to "height of radio 1 above clutter (m)"

Comment #	2a-05	Comment submitted by:	Jose	Costa		Member
Туре	Editorial	Starting Pag	ge Number 16	Starting Line Number 6	Section	3.2

#### Balloter's Suggested Change:

Replace "rate" by "ratio"

#### Balloter's Reason:

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

Decision:	Accepted	Recommendation	by:	TG2,	Session	#11
Proposed Resolut	tion:					

**Reason for Recommendation:** 

<b>.</b>		Comment	submitted	hv:	Adrian		Florea				Member
Comment #	2a-06	comment	Subinitieu	у. <sub> </sub>	Aunan		Tiorea				Monibol
Туре	Editorial		Starting	Page	e Number	20	Starting Line	e Number	34	Section	4.2, Comment # 41
Balloter's S	uggested Chan	ige:									
Remove re	Remove recommendation #3										
Balloter's R	leason:										
	mendation is u dations #9, #1				ccording wi	th the	e modified te	xt, the ro	ecomm	endation h	ere is that careful consideration be given to
Decision:	Accepte	d - Modifie	d Reco	nmen	dation by:	TG2,	Session #11				
Proposed R	lesolution:										
"Implemen		ures sugge	ested in R	com	mendation	is 8-10	0 using the s	suggeste			e 19, after line 39 : meters in Section 6 will, besides improving the

Similarly, simulations performed in the preparation of this practice suggest that most of the measures undertaken by an operator to promote intra-system performance will also promote coexistence."

Delete form beginning of line 40 the words "In support of this view" Capitalize next word and leave rest of sentence unaltered.

# IEEE 802.16-01/06

Comment #	2a-07	Comment submitted by:	Миуа	Wachira		Member				
Туре	Editorial	Starting Pa	ge Number 21	Starting Line Number 24	4 Section	4.2				
Balloter's S	Balloter's Suggested Change:									
exponents	are not registe		dBW/m2)/MHz, no	oting that ANSI-IEEE Sto		Hz/m2, dBw/MHz-m2, and dBW/MHz/m2. [sorry, ection 4.3) and IEEE Std 280-1985(section 3.3)				
Balloter's R	eason:									

Consistency

Decision:	Accepted	Recommendation	by:	TG2,	Session	#11	
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Proposed Resolution:

Comment #	2a-08 Comment s	submitted by:	Michael	Hamilton		Member
Туре	Technical, Binding	Starting Pag	ge Number 24 S	Starting Line Number 1	Section	6.3.2.2

#### Balloter's Suggested Change:

D/U = -5dB for adjacent channel D/U = -20 dB for second adjacent channel

#### Balloter's Reason:

If the wording of the new text really is intended to indicate that the Undesired carrier level is 20 dB stronger than the Desired carrier, then the new proposal is a dramatic change from the old (although confusing) spec of 0 dB. It is not apparent how the proposed -20 dB D/U ratio is justified and it is a major design consideration.

It is not clear how these levels are justitifed as "spillover" and if the proposed tolerance has been analyzed, or is intended to apply for all modulation types covered under the 802.16.1 proposal (e.g. 64 QAM).

Decision: Accepted - modified Recommendation by: TG2, Session #11

#### **Proposed Resolution:**

On page 58 line 5 to 13, delete current text and replace with "Where coordination between operators can not be guaranteed it is recommended that an operational receiver be capable of withstanding the exposure of relatively high power adjacent channel carriers. The recommended numerical values, below, are based on the emission mask in section 6.1.3, QPSK modulation and single carrier operation. Where coordination between the victim and interfering operators is possible, the occasions where this kind of interference is experienced may be reduced.

This recommendation has a direct impact on coexistence referenced to the estimation of guard band requirements discussed extensively elsewhere in this Practice. The coexistence criteria assume that adjacent channel carrier interference, as defined by NFD, establish the requirements, and that interfering signals have not degraded the NFD. Thus, the following tests can only be indirectly related to the emission level masks and the guard band criteria recommended elsewhere in this Practice.

A possible test can be defined in terms of a Desired Carrier (D) to Undesired Carrier (U) ratio D/U. 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

This test should be performed with both D and U signals having the same 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 Channel D/U

Set the U carrier frequency so that it corresponds to a one channel bandwidth frequency offset and at a D/U = -5 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 Channel D/U

Set the U carrier frequency so that it corresponds to a two channel bandwidth frequency offset and at a D/U = -35 dB

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

Examples of suitable test methods can be found, such as those in ETSI conformance testing procedures (see Annex A.3) Where coordination between operators can not be guaranteed it is recommended that an operational receiver be capable of withstanding the exposure of relatively high power adjacent channel carriers."

#### Reason for Recommendation:

Comment understood to refer to page 58 line 5, and to Round 1 Ballot comment # 81

Comment #	2a-09	Comment submitted by: Muya	Wachira	Member
Туре	Editorial	Starting Page Number	24 Starting Line Number 21	Section 4.3

#### Balloter's Suggested Change:

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

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

#### Balloter's Reason:

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

Decision: Accepted Recommendation by: TG2, Session #11

**Proposed Resolution:** 

#### 2

### IEEE 802.16-01/06

Comment # 2a-10       Comment submitted by:       Roger       Marks       Member         Type       Editorial       Starting Page Number 28       Starting Line Number 4       Section       5.2         Balloter's Suggested Change:       Ensure that lines 3-15 include no definitions but simply refer to the introductory clauses.       Balloter's Reason:       To avoid the possibility of inconsistencies in with the definitions.         Decision:       Accepted - Modified       Recommendation by: TG2, Session #11         Proposed Resolution:       On page 28, delete lines 3-15. Add definition for TE and RS to document section 3 as : for RS, "A repeater station includes radio communication equipment facing two or more separate directions within a system. Traffic received from one direction may be parity or wholly re-transmitted in another directon. Traffic mais terminal Equipment encompasses a wide variely of apparatus at customer premisses, providing end user services, and connecting to subscriber station equipment (SS) via one or more interfaces. Dependent on the end-user applications (which could include telephony, video and data) these interfaces may be standardized or custom-specific."         Resson for Recommendation:				IEEE 802.16-01/
Balloter's Suggested Change: Ensure that lines 3-15 include no definitions but simply refer to the introductory clauses. Balloter's Reason: To avoid the possibility of inconsistencies in with the definitions. Decision: Accepted - Modified Recommendation by: TG2, Session #11 Proposed Resolution: On page 28, delete lines 3-15. Add definition for TE and RS to document section 3 as : for RS, "A repeater station includes radio communication equipment facing two or more separate directions within a system. Traffic received from one direction may be parity or wholly re-transmitted in another direction. Traffic measures a wide variety of apparatus at customer premises, providing end user services, and connecting to subscriber station equipment (SS) via one or more interfaces. Dependent on the end-user applications (which could include telephony, video and data) these interfaces may be standardized or custom–specific." Reason for Recommendation: Comment # 2a-11 Comment submitted by: Muya Wachira Member Type Editorial Starting Page Number 30 Starting Line Number 23 Section 5.3.1.2 Balloter's Reason: Section 5.2.1 with the correct reference. Balloter's Reason: Section 5.2.1 does not exist. Decision: Accepted - Modified Recommendation by: TG2, Session #11 Proposed Resolution:	Comment # 2a-10 Comment submitted by: Roger	Marks		Member
Ensure that lines 3-15 include no definitions but simply refer to the introductory clauses. Jalloter's Reason: To avoid the possibility of inconsistencies in with the definitions. Decision: Accepted - Modified Recommendation by: TG2, Session #11 Proposed Resolution: On page 28, delete lines 3-15. Add definition for TE and RS to document section 3 as : for RS, "A repeater station includes radio communication equipment acing two or more separate directions within a system. Traffic received from one direction may be partly or wholly re-transmitted in another direction. Traffic ma also terminate and originate at the repeater station of TE. "Terminal Equipment encompasses a wide variety of apparatus at customer premises, providing and user services, and connecting to subscriber station of TE. "Terminal Equipment tencompasses a wide variety of apparatus at customer premises, providing and user services, and connecting to subscriber station equipment (SS) via one or more interfaces. Dependent on the end-user applications (which could nclude telephony, video and data) these interfaces may be standardized or custom–specific." Reason for Recommendation: Type Editorial Starting Page Number 30 Starting Line Number 23 Section 5.3.1.2 Jalloter's Reason: Section 5.2.1 with the correct reference. Jalloter's Reason: Section 5.2.1 does not exist. Decision: Accepted - Modified Recommendation by: TG2, Session #11 Proposed Resolution:	Type Editorial Starting Page Numb	per 28 Starting Line Num	ber 4 Section	5.2
halloter's Reason:       io avoid the possibility of inconsistencies in with the definitions.         hecision:       Accepted - Modified       Recommendation by: TG2, Session #11         troposed Resolution:       On page 28, delete lines 3-15. Add definition for TE and RS to document section 3 as : for RS, "A repeater station includes radio communication equipment acing two or more separate directions within a system. Traffic received from one direction may be partly or wholly re-transmitted in another direction. Traffic mails be terminate and originate at the repeater station.", for TE, "Terminal Equipment encompasses a wide variety of apparatus at customer premises, providing and user services, and connecting to subscriber station equipment (SS) via one or more interfaces. Dependent on the end-user applications (which could neclude telephony, video and data) these interfaces may be standardized or custom-specific."         Reason for Recommendation:	alloter's Suggested Change:			
o avoid the possibility of inconsistencies in with the definitions. ecision: Accepted - Modified Recommendation by: TG2, Session #11 roposed Resolution: On page 28, delete lines 3-15. Add definition for TE and RS to document section 3 as : for RS, "A repeater station includes radio communication equipment acing two or more separate directions within a system. Traffic received from one direction may be partly or wholly re-transmitted in another direction. Traffic rules So terminate and originate at the repeater station,", for TE, "Terminal Equipment encompasses a wide variety of apparatus at customer premises, providing nd user services, and connecting to subscriber station equipment (SS) via one or more interfaces. Dependent on the end-user applications (which could hold telephony, video and data) these interfaces may be standardized or custom-specific." Reason for Recommendation: omment # 2a-11 Comment submitted by: Muya Wachira Member Type Editorial Starting Page Number 30 Starting Line Number 23 Section 5.3.1.2 alloter's Suggested Change: eplace "section 5.2.1 with the correct reference. alloter's Reason: ection 5.2.1 does not exist. ecision: Accepted - Modified Recommendation by: TG2, Session #11 roposed Resolution:	nsure that lines 3-15 include no definitions but simply re	efer to the introductory claus	ses.	
Accepted - Modified       Recommendation by: TG2, Session #11         roposed       Resolution:         In page 28, delete lines 3-15. Add definition for TE and RS to document section 3 as : for RS, "A repeater station includes radio communication equipment acing two or more separate directions within a system. Traffic received from one direction may be partly or wholly re-transmitted in another direction. Traffic mains and originate at the repeater station.", for TE, "Terminal Equipment encompasses a wide variety of apparatus at customer premises, providing not user services, and connecting to subscriber station equipment (SS) via one or more interfaces. Dependent on the end-user applications (which could not use a services, and connecting to subscriber station equipment (SS) via one or more interfaces. Dependent on the end-user applications (which could not use and data) these interfaces may be standardized or custom—specific."         teason for Recommendation:       Member         Type       Editorial       Starting Page Number 30       Starting Line Number 23       Section       5.3.1.2         alloter's Reason:       ection 5.2.1 with the correct reference.       alloter's Reason:       ection 5.2.1 with the correct reference.         alloter's Reason:       ection 5.2.1 does not exist.       Recommendation by: TG2, Session #11       Troposed Resolution:				
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Include telephony, video and data) these interfaces may be standardized or custom-specific."  Reason for Recommendation:  Comment # 2a-11 Comment submitted by: Muya Wachira Member  Type Editorial Starting Page Number 30 Starting Line Number 23 Section 5.3.1.2  Falloter's Suggested Change: Replace "section 5.2.1 with the correct reference.  Halloter's Reason: Section 5.2.1 does not exist.  Proposed Resolution:				
Reason for Recommendation: Comment # 2a-11 Comment submitted by: Muya Wachira Member Type Editorial Starting Page Number 30 Starting Line Number 23 Section 5.3.1.2 Balloter's Suggested Change: Replace "section 5.2.1 with the correct reference. Balloter's Reason: Section 5.2.1 does not exist. Decision: Accepted - Modified Recommendation by: TG2, Session #11 Proposed Resolution:	· · · · · · · · · · · · · · · · · · ·			
Type       Editorial       Starting Page Number 30       Starting Line Number 23       Section 5.3.1.2         Balloter's Suggested Change:       Replace "section 5.2.1 with the correct reference.         Balloter's Reason:       Section 5.2.1 does not exist.         Decision:       Accepted - Modified       Recommendation by: TG2, Session #11         Proposed Resolution:       Section:				
Balloter's Suggested Change: Replace "section 5.2.1 with the correct reference. Balloter's Reason: Section 5.2.1 does not exist. Decision: Accepted - Modified Recommendation by: TG2, Session #11 Proposed Resolution:				
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Balloter's Reason: Section 5.2.1 does not exist. Decision: Accepted - Modified Recommendation by: TG2, Session #11 Proposed Resolution:	Comment # 2a-11 Comment submitted by: Muya		ber 23 Section	
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Decision: Accepted - Modified Recommendation by: TG2, Session #11 Proposed Resolution:	Comment # 2a-11 Comment submitted by: Muya Type Editorial Starting Page Numb Balloter's Suggested Change:		ber 23 Section	
Proposed Resolution:	Comment # 2a-11 Comment submitted by: Muya Type Editorial Starting Page Numb Balloter's Suggested Change: Replace "section 5.2.1 with the correct reference.		ber 23 Section	
	Comment # 2a-11 Comment submitted by: Muya Type Editorial Starting Page Numb Balloter's Suggested Change: Replace "section 5.2.1 with the correct reference. Balloter's Reason:		ber 23 Section	
	Comment # 2a-11 Comment submitted by: Muya Type Editorial Starting Page Numb Balloter's Suggested Change: Replace "section 5.2.1 with the correct reference. Balloter's Reason: Section 5.2.1 does not exist.	ber 30 Starting Line Num	ber 23 Section	
	Comment # 2a-11       Comment submitted by: Muya         Type       Editorial         Starting Page Numb         Balloter's Suggested Change:         Replace "section 5.2.1 with the correct reference.         Balloter's Reason:         Section 5.2.1 does not exist.         Decision:       Accepted - Modified	ber 30 Starting Line Num	ber 23 Section	

# IEEE 802.16-01/06

Comment #	2a-12	Comment sul	bmitted by:	Barry	Lev	vis			Member
Туре	Editorial		Starting Pa	ge Number	42 Starti	ng Line Numb	er 7	Section	6.1.3.1
Balloter's Su	uggested Chang	e:							
Delete "CEF	РТ/".								
Balloter's R	eason:								
CEPT is a s	separate body t	o ETSI. Dele	etion improv	es accura	cy of text.				
Decision:	Accepted	ł	Recomme	endation by:	: TG2, Sessio	n #11			
Proposed R	esolution:								
Reason for	Recommendatio	n:							
Comment #	2a-13	Comment sul	bmitted by:	Barry	Lev	vis			Member
Туре	Editorial		Starting Pa	ge Number	42 Starti	ng Line Numb	er 7	Section	6.1.3.1
Balloter's Su	uggested Chang	e:							
Delete the v	word "Draft" on	lines 7 and	14.						
Balloter's R	eason:								
EN 301 390	) has complete	d the ETSI p	processes a	nd is there	fore no long	er a draft. Ac	curacy im	proved.	
Decision:	Accepted	(line 7)	Recomme	endation by:	: TG2, Sessio	n #11			
Proposed R	esolution:								
Line 14 wa	s deleted as a	result of an	earlier com	ment					
Reason for	Recommendatio	n:							

Comment #	2a-14	Comment su	bmitted by:	Robert	Whiting			Observer
Туре	Technical,	Non-binding	Starting Pag	e Number 49	Starting Line N	lumber 1	Section	6.2.2.1.2
Balloter's Su	uggested Cha	inge:						
Modify figur	e 14 and Ta	ble 6-5 to end	the BTS Ele	evation Copol	Minimum curve a	t -90 degree	s instead of	-180 degrees.
Balloter's R	eason:							
	e of the mini Id not be illu		to ensure ac	lequate covera	age in the illumina	ated sector.	The region f	rom -90 degrees to -180 degrees is in another sector,
Decision:	Accep	ted	Recommer	ndation by: TG	2, Session #11			
Proposed Re	esolution:							
Reason for	Recommenda	tion:						
Comment #	2a-15	Comment su	bmitted by:	Walt	Roehr			Member
Туре	Technical,	Binding	Starting Pag	e Number 67	Starting Line N	lumber 2	Section	Table 8-1
Change He	0	•	pacing for ac	cceptable perfe	ormance" to "Sep	peration at w	hich Coordir	nation is Necessary"
Balloter's R								
km was me	ntioned, in v		change woul	d ripple throug			•	(comment 34) but unfortunately I tied it to first place 60 en. With this change I will (reluctantly, because I fear
Decision:	Accept	ed - Modified	Recommer	ndation by: TG	2, Session #11 an	d subsequen	t corresponde	nce
Proposed Re	esolution:							
•	•	umn to "Spacir with this chan	•	nterference is	below target leve	∍l (generally	6 dB below	receiver noise floor)" Change heading in column 3 of

# IEEE 802.16-01/06

Comment # 2a-16 Comment submitted by: Walt	Roehr	Member
Type Editorial Starting Page Number 67	Starting Line Number 2 Section	Table 8-1
Balloter's Suggested Change: Change "CS" to "Hub" throughout table (5th col).		
Change "Co-channel" to Adjacent Area, same frequency" througho Balloter's Reason: Internal consistency within table. Terms "hub" and adjacent area, s		
Decision: 1. Superseded Recommendation by: TG2,		
Proposed Resolution: In Table 8-1 change "Co-channel" to "Adjacent Area, same Channe	el". Also in Row 6, insert, "Same area"	before "adjacent channel"
Reason for Recommendation: 1. Refer to 2a-2		
Comment # 2a-17 Comment submitted by: Muya	Wachira	Member
Type Editorial Starting Page Number 67	Starting Line Number 2 Section	Table 8.1
Balloter's Suggested Change: 1)In rows 2, 7, and 8 insert "(note 1)"after CS-CS 2)Change the font in column 1 to be same as other columns		
3)In rows 10-13 correct use the same format of "Monte Carlo"as us	ed in rows 2-4	
3)In rows 10-13 correct use the same format of "Monte Carlo"as us Balloter's Reason: Item 1 will add clarity. Other items will add consistency	ed in rows 2-4	
Balloter's Reason:		
Balloter's Reason: Item 1 will add clarity. Other items will add consistency		

# 6-01/06

							ICCC	802.16-
Comment # 2a-18	Comment s	submitted by: Muya		Wachira		Member		
туре Editoria	I	Starting Page Num	ber 76	Starting Line Number	3 Section	9.10.2		
Balloter's Suggested	Change:							
1)Place the figure ca	aption below the	figure. Make same	change (	globally if applicable.				
2)Line 23 Change nu equation B-1	umber for equati	on from 5 to 7. In th	e Annexe	es start with new series	of equation num	bering e.g. page 8	82 line 7, equation	7 becomes
If possible also use	equation editor	for equations.						
Balloter's Reason:								
<ol> <li>Normal editing pra</li> <li>Equation 5 is misp</li> </ol>		an eq 6 on page 60.						
Decision: Ac	cepted - Clarified	Recommendation	by: TG2	2, Session #11				
Proposed Resolution:								
Proposed Resolution: Equation (5) should	be Eq. (6), and	on page 60, Eq (6)	should b	e Eq (5)				
•		on page 60, Eq (6)	should b	e Eq (5)				
Equation (5) should Reason for Recomme	ndation:		should b					
Equation (5) should Reason for Recomme Comment # 2a-19	ndation: Comment	submitted by: Muya		Wachira		Member		
Equation (5) should Reason for Recomme Comment # 2a-19 Type Editoria	ndation: Comment				1 Section	Member A.2		
Equation (5) should Reason for Recomme Comment # 2a-19 Type Editoria Balloter's Suggested	ndation: Comment s	submitted by: Muya Starting Page Num		Wachira	1 Section			
Equation (5) should Reason for Recomme Comment # 2a-19 Type Editoria Balloter's Suggested Replace "section 3.1	ndation: Comment s	submitted by: Muya Starting Page Num		Wachira	1 Section			
Equation (5) should Reason for Recomme Comment # 2a-19 Type Editoria Balloter's Suggested	ndation: Comment I Change: .3" with the corr	submitted by: Muya Starting Page Num ect refence.		Wachira	1 Section			
Equation (5) should Reason for Recomme Comment # 2a-19 Type Editoria Balloter's Suggested Replace "section 3.1 Balloter's Reason: Section 3.1.3 is a de	ndation: Comment I Change: .3" with the corr	submitted by: Muya Starting Page Num ect refence.	ber 81	Wachira Starting Line Number	1 Section			
Equation (5) should Reason for Recomme Comment # 2a-19 Type Editoria Balloter's Suggested Replace "section 3.1 Balloter's Reason: Section 3.1.3 is a de	ndation: Comment a I Change: .3" with the corr finition not discu	submitted by: Muya Starting Page Num ect refence.	ber 81	Wachira Starting Line Number	1 Section			

## IEEE 802.16-01/06

Comment #2a-20Comment submitted by:BarryLewisMemberTypeEditorialStarting Page Number81Starting Line Number17SectionAnnex A

#### Balloter's Suggested Change:

Insert new sub-section:

"A.3 European Conformance Test Standards

ETSI has published a standard, in a number of parts, that deals in detail with the conformance testing procedures for Fixed Wireless Access equipment. EN301-126-2-1 to -5, titled "Fixed Radio Systems; Conformance Testing;", has the following parts:

Part 1: "Point to Multipoint equipment; Definitions and General Requirements"

Part 2 covers FDMA equipment.

Part 3 covers TDMA equipment.

Part 4 covers Frequency Hopping CDMA equipment.

Part 5 covers Direct Sequence CDMA equipment.

Additionally drafting activity on a part 6 is complete catering for Multi-Carrier TDMA equipment.

Copies of the published standards are available for download from the ETSI Web Site."

#### Balloter's Reason:

Useful supplementary information in the Annex relating to Conformance Testing

Decision: Accepted - Modified Recommendation by: TG2, Session #11

#### **Proposed Resolution:**

Insert new subsection on page 81 following line 17 as: A.3 European conformance test standards

ETSI has published a standard, in a number of parts, that deals in detail with the conformance testing procedures for Fixed Wireless Access equipment. EN 301 126-2-1 to -5, titled "Fixed Radio Systems; Conformance testing;", has the following sub-parts:

Part 2-1: Point-to-Multipoint equipment;Definitions and general requirements Part 2-2: Point-to-Multipoint equipment;Test procedures for FDMA systems Part 2-3: Point-to-Multipoint equipment;Test procedures for TDMA systems Part 2-4: Point-to-Multipoint equipment;Test procedures for FH-CDMA systems Part 2-5: Point-to-Multipoint equipment;Test procedures for DS-CDMA systems

Additionally drafting activity on a Part 2-6, catering for Multi-Carrier TDMA equipment, is complete.

Copies of the published standards are available for download from the ETSI Web Site." On page 78 line 4 delete the word "following" and add after "text" the words "in Annex A1 and Annex A2"

Comment #	2a-21	Comment sub	mitted by:	Muya	Wad	hira			Member
Туре	Editorial		Starting Page	e Number 94	Starti	ng Line Numbe	er 7	Section	C.8
Balloter's S	Suggested Chang	ge:							
Replace "(d	derived in an ea	arlier section	of this docu	ment)" with "(	(derived i	n Annex B of	this docu	iment)"	
Balloter's F Precision o	Reason: of reference								
Decision:	Accepte	d	Recommen	dation by: T	G2, Sessio	n #11			
Proposed R	Resolution:								
Reason for	Recommendatio	on:							
			F						
Comment #	2a-22	Comment sub	mitted by:	Миуа	Wad	chira			Member
Comment # Type	2a-22 Technical, N		-		1	chira ng Line Numbe	er 27	Section	Member C.9

#### Balloter's Reason:

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

Decision: Accepted - Modified Recommendation by: TG2, Session #11

#### Proposed Resolution:

Change "-114dBm/MHz" to "-144dBW/MHz". Make same change on page 96 line 37, pg 97 ln 23, pg 98 ln 23 Do not add definition of psd.

Comment # 2a-23 Comment submitted by: Barry Lewis

TypeEditorialStarting Page Number106Starting Line Number15SectionD.16

Balloter's Suggested Change:

Replace the text in section D.16 (sic) with the following: "D.16 Radio Advisory Board of Canada (RABC)

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

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

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

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

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

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

#### Balloter's Reason:

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

Decision: Accepted - Modified Recommendation by: TG2, Session #11

#### Proposed Resolution:

Modify proposed text as follows:

- 1. replace all occurrences of "spectral pfd" with "psfd"
- 2. In second paragraph delete "the" after "process using"
- 3. Check and correct paragraph numbering, as necessary.

4. Add table reference

	Editoria Nata		
	ubmitted by: Editor's Note		• ···
Туре	Starting Page Number	Starting Line Number	Section
Balloter's Suggested Change:			
Balloter's Reason:			
Decision: Accepted	Recommendation by: TG2,	Session #11	
Proposed Resolution:			
Fully define terms used in annexes,	where undefined in main acro	nym section	
Reason for Recommendation:			
Comment # EN-02 Comment s	ubmitted by: Editor's Note		
Туре	Starting Page Number	Starting Line Number	Section
Balloter's Suggested Change:		<b>J</b>	
Balloter's Reason:			
	Recommendation by: TG2,	Session #11	
Decision: Accepted	Recommendation by. 102,	36551011 #11	
Proposed Resolution: Remove "-" from ETSI document refe	renees and replace with a one	and after the first 2 digite o g	EN201 200 Engure analysis offer EN
Remove - nom Erst document ren	erences and replace with a spa	ace aller the first 5 digits e.g.	ENSUT Sed. Ensure space aller EN.
Reason for Recommendation:			
Comment # EN-03 Comment s	ubmitted by: Editor's Note		
Туре	Starting Page Number	Starting Line Number	Section
Balloter's Suggested Change:			
Balloter's Reason:			
Decision: Accepted	Recommendation by: TG2,	Session #11	
Proposed Resolution:			
Add ref [10] to occurences of EN301	390 e.g. in lines 7.14 of page	42	
	- J		
Reason for Recommendation:			

Comment #	EN-03	Comment s	ubmitted by:	Editor's Note			
Туре			Starting Pag	je Number	Starting Line Number	Section	
Balloter's	Suggested Chang	ge:					
Balloter's	Reason:						
Decision:	Accepte	d	Recomme	ndation by: TG	2, Session #11		
Proposed	Resolution:						
"Immunity	" on line 16, pag	ge 42. Seai	rch for correct	t title capitaliza	ation for ETSI documents (se	e note 7)	
Reason fo	r Recommendatio	on:					
Comment #	EN-04	Comment s	ubmitted by:	Editor's Note			
Туре			Starting Pag	je Number	Starting Line Number	Section	
	Suggested Chang	ge:					
Balloter's							
Decision:	Accepte	d	Recomme	ndation by: TG	2, Session #11		
	Resolution:						
		FDD/TD	)" in column 2	2. Harmonise e	entries in column 3 to "Same	area, adjacent channel" instead of "Co-channel"	
Reason fo	r Recommendatio	on:					
		Commont .	ubmitted by	Editoria Nota			
Comment #	EN-05	comment s	ubmitted by:		Ctarting Line Number		
Туре			Starting Pag	je Number	Starting Line Number	Section	
	Suggested Chang	je:					
Balloter's	Reason:						
Decision:	Accepte	d	Recomme	ndation by: ed	itor		
Proposed	Resolution:						
Correct re	eference to rain	attentuatior	n page 95, lin	e 24 should be	e ITU-R P.838		
Reason fo	r Recommendatio	on:					

Comment # EN-06 Comment	submitted by: Editor's Note		
Туре	Starting Page Number	Starting Line Number	Section
Balloter's Suggested Change:			
Balloter's Reason:			
Decision: Accepted	Recommendation by: TG2,	, Session #11	
Proposed Resolution:			
Update annex G to correspond with	n correct version number and c	date for EN 301 390 on page	e 42
Reason for Recommendation:			
	submitted by: Editor's Note		
	ł	Otautium Line Northeau	•
Туре	Starting Page Number	Starting Line Number	Section
Balloter's Suggested Change:			
Balloter's Reason:			
Decision: Accepted	Recommendation by: TG2,	, Session #11	
Proposed Resolution:			
On page 116 line 20 EN 301 390 ti	tle should be all lower case ex	cept first word and "Digital F	Fixed Radio Systems"
Reason for Recommendation:			
Comment # EN-08 Comment	submitted by: Editor's Note		
Туре	Starting Page Number	Starting Line Number	Section
Balloter's Suggested Change:			
Balloter's Reason:			
Decision: Accepted	Recommendation by: TG2,	, Session #11	
Proposed Resolution:			
On page 11 line 36, delete square	brackets and text within		
Reason for Recommendation:			

Comment	# EN-09	Comment submitted by:	Editor's Note			
Туре	1	Starting Pa	age Number	Starting Line Number	Section	
Balloter's	Suggested Change	9:				
Balloter's	Reason:					
Decision:	Accepted	Recomm	endation by: edi	tor		
Proposed	Resolution:					
Editor to	check whether si	ngle sub paragraph ni	umbering is allow	wed and modify heading n	numbers as necessary. Delete the heading o	of sub clause 6.1.3.1
Reason fe	or Recommendation	1:				
Comment	# EN-10	Comment submitted by:	Editor's Note			
Туре		Starting Pa	age Number	Starting Line Number	Section	
Balloter's Balloter's	Suggested Change Reason:	9:				
Decision:	Accepted	Recomm	endation by: TG	2, Session #11		
•	Resolution: I-1 page 24, chan	ges all occurences of	"frequency" to "	channel" in order to be co	nsistent with table 8-1	
Reason fo	or Recommendation	1:				
Comment Type		Comment submitted by: Starting P	Editor's Note	Starting Line Number	Section	
	Suggested Change	-		j		
Balloter's						
Decision:	Accepted	Recomm	endation by: TG	2, Session #11		
•	Resolution: remove square b	prackets from "[0.6]" or	n line 22			
Reason fo	or Recommendation	1:				

Comment # EN-12 Comment	submitted by: Editor's Note			
Туре	Starting Page Number	Starting Line Number	Section	
Balloter's Suggested Change:				
Balloter's Reason:				
Decision: Accepted	Recommendation by: TG	2, Session #11		
Proposed Resolution:				
In Annex E, change all non heading	g bold text to normal			
Reason for Recommendation:				
Comment # EN-13 Comment	submitted by: Editor's Note			
Туре	Starting Page Number	Starting Line Number	Section	
Balloter's Suggested Change:				
Balloter's Reason:				
Decision: Accepted	Recommendation by: TG	2, Session #11		
Proposed Resolution:				
Page 117, line 2, date to be checked	ed by editor and corrected, if	necessary		
Reason for Recommendation:				
Comment # EN-14 Comment	submitted by: Editor's Note			
Туре	Starting Page Number	Starting Line Number	Section	
Balloter's Suggested Change:				
Balloter's Reason:				
Decision: Accepted	Recommendation by: TG	2, Session #11		
Proposed Resolution:				
Page 11, add bibliographical footne	ote to explain location of doc	ument references		
Reason for Recommendation:				

Comment	# EN-15 Comr	ment submitted by: Editor's Note			
Туре		Starting Page Number	Starting Line Number	Section	
Balloter's	Suggested Change:				
Balloter's	Reason:				
Decision:	Accepted	Recommendation by: edite	or		
Proposed	Resolution:				
Editor to	check Practice for cor	rect document references and corr	ect as necessary (e.g.errol	rs in Annex D)	
Reason f	or Recommendation:				
Comment	# EN-16 Comr	ment submitted by: Editor's Note			
Туре		Starting Page Number	Starting Line Number	Section	
Balloter's	Suggested Change:				
Balloter's	Reason:				
Decision:	Accepted	Recommendation by: edite	or		
Proposed	Resolution:				
Documer	nt reference numbers	to be added to text as necessary (§	5,10,23,25 etc.) and refere	nces renumbere	
Reason f	or Recommendation:				
Comment	# EN-17 Comr	ment submitted by: Editor's Note			
Туре		Starting Page Number	Starting Line Number	Section	
Balloter's	Suggested Change:				
Balloter's	Reason:				
Decision:	Accepted	Recommendation by: TG2,	Session #11		
Proposed	Resolution:				
Page 45,	line 33, specific figure	e numbers to be added			
Reason f	or Recommendation:				

Comment # E	N-18 Comment	submitted by: Editor's Note		
Туре		Starting Page Number	Starting Line Number	Section
Balloter's Sugg	ested Change:			
Balloter's Reas	on:			
Decision:	Accepted	Recommendation by: edi	tor	
Proposed Reso	lution:			
		bllowing figure" to "in figure (na ange this to read "The Recom		s "The following Recommendations", but the recommendations
Reason for Re	commendation:			
Comment # E	N-19 Comment	submitted by: Editor's Note		
Туре		Starting Page Number	Starting Line Number	Section
Balloter's Sugg	ested Change:			
Balloter's Reas	on:			
Decision:	Accepted	Recommendation by: TG2	2, Session #11	
Proposed Reso	lution:			
Change all oc	curences of "Note n"	to conform to IEEE standard	practice. Similarly for figures	and headings
Reason for Re	commendation:			
Comment # E	N-20 Comment	submitted by: Editor's Note		
Туре		Starting Page Number	Starting Line Number	Section
Balloter's Sugg	ested Change:			
Balloter's Reas	on:			
Decision:	Accepted	Recommendation by: TG2	2, Session #11	
Proposed Reso	lution:			
Page 26 line 2 on one side		esulting from 2a-1, the text is	now incorrect. Change senter	nce starting "Hub" to "BS provide connections to core networks
Reason for Re	commendation:			

# IEEE 802.16-01/06

Comment # EN-22       Comment submitted by:       Editor's Note         Type       Starting Page Number       Starting Line Number       Section         Balloter's Suggested Change:       Balloter's Reason:       Decision:       Accepted       Recommendation by: TG2, Session #11         Proposed Resolution:       As a result of the comment 62, some text has been incorrectly deleted. Reinsert the words"plus the specified signal-to-noise ratio of the receiver" that or on line 17.         Reason for Recommendation:	
Balloter's Suggested Change: Balloter's Reason: Decision: Accepted Recommendation by: TG2, Session #11 Proposed Resolution: As a result of the comment 62, some text has been incorrectly deleted.Reinsert the words"plus the specified signal-to-noise ratio of the receiver" that or on line 17. Reason for Recommendation: Comment # EN-23 Comment submitted by: Editor's Note Type Starting Page Number Starting Line Number Section Balloter's Suggested Change: Balloter's Reason: Decision: Accepted Recommendation by: editor Proposed Resolution: As a consequence of comment #6 do a check throughout the document to see if we need to add "fixed" in front of all occurrences of "BWA" or "broadb wireless access". Exceptions are quoted text and page 25 line 20.	
Balloter's Reason:         Decision:       Accepted       Recommendation by: TG2, Session #11         Proposed Resolution:         As a result of the comment 62, some text has been incorrectly deleted.Reinsert the words"plus the specified signal-to-noise ratio of the receiver" that or on line 17.         Reason for Recommendation:         Comment # EN-23       Comment submitted by:       Editor's Note         Type       Starting Page Number       Starting Line Number       Section         Balloter's Suggested Change:       Balloter's Reason:       Decision:       Accepted       Recommendation by: editor         Proposed Resolution:       As a consequence of comment #6 do a check throughout the document to see if we need to add "fixed" in front of all occurrences of "BWA" or "broadby wireless access". Exceptions are quoted text and page 25 line 20.	
Decision:       Accepted       Recommendation by: TG2, Session #11         Proposed Resolution:       As a result of the comment 62, some text has been incorrectly deleted. Reinsert the words"plus the specified signal-to-noise ratio of the receiver" that or on line 17.         Reason for Recommendation:	
Proposed Resolution: As a result of the comment 62, some text has been incorrectly deleted.Reinsert the words"plus the specified signal-to-noise ratio of the receiver" that or on line 17. Reason for Recommendation: Comment # EN-23 Comment submitted by: Editor's Note Type Starting Page Number Starting Line Number Section Balloter's Suggested Change: Balloter's Reason: Decision: Accepted Recommendation by: editor Proposed Resolution: As a consequence of comment #6 do a check throughout the document to see if we need to add "fixed" in front of all occurrences of "BWA" or "broadb- wireless access", Exceptions are quoted text and page 25 line 20.	
As a result of the comment 62, some text has been incorrectly deleted.Reinsert the words"plus the specified signal-to-noise ratio of the receiver" that or on line 17.           Reason for Recommendation:           Comment # EN-23         Comment submitted by:           Editor's Note           Type         Starting Page Number           Starting Page Number         Section           Balloter's Suggested Change:           Balloter's Reason:           Decision:         Accepted           Recommendation by: editor           Proposed Resolution:           As a consequence of comment #6 do a check throughout the document to see if we need to add "fixed" in front of all occurrences of "BWA" or "broadbowireless access". Exceptions are quoted text and page 25 line 20.	
on line 17.  Reason for Recommendation:  Comment # EN-23 Comment submitted by: Editor's Note  Type Starting Page Number Starting Line Number Section Balloter's Suggested Change: Balloter's Reason: Decision: Accepted Recommendation by: editor Proposed Resolution: As a consequence of comment #6 do a check throughout the document to see if we need to add "fixed" in front of all occurrences of "BWA" or "broadbuwireless access". Exceptions are quoted text and page 25 line 20.	
Comment # EN-23       Comment submitted by:       Editor's Note         Type       Starting Page Number       Starting Line Number       Section         Balloter's Suggested Change:       Balloter's Reason:       Decision:       Accepted       Recommendation by: editor         Proposed Resolution:       As a consequence of comment #6 do a check throughout the document to see if we need to add "fixed" in front of all occurrences of "BWA" or "broadbawireless access". Exceptions are quoted text and page 25 line 20.	curred
Type       Starting Page Number       Starting Line Number       Section         Balloter's Suggested Change:       Balloter's Reason:       Decision:       Accepted       Recommendation by: editor         Proposed Resolution:       As a consequence of comment #6 do a check throughout the document to see if we need to add "fixed" in front of all occurrences of "BWA" or "broadbawireless access". Exceptions are quoted text and page 25 line 20.	
Type       Starting Page Number       Starting Line Number       Section         Balloter's Suggested Change:       Balloter's Reason:       Balloter's Reason:       Balloter's Reason:         Decision:       Accepted       Recommendation by: editor       Balloter's Reason:       Balloter's Reason:         Proposed Resolution:       As a consequence of comment #6 do a check throughout the document to see if we need to add "fixed" in front of all occurrences of "BWA" or "broadba" wireless access". Exceptions are quoted text and page 25 line 20.	
Balloter's Reason:       Decision:       Accepted       Recommendation by: editor         Proposed Resolution:       As a consequence of comment #6 do a check throughout the document to see if we need to add "fixed" in front of all occurrences of "BWA" or "broadbawireless access". Exceptions are quoted text and page 25 line 20.	
Decision:       Accepted       Recommendation by: editor         Proposed Resolution:       As a consequence of comment #6 do a check throughout the document to see if we need to add "fixed" in front of all occurrences of "BWA" or "broadby wireless access". Exceptions are quoted text and page 25 line 20.	
Proposed Resolution: As a consequence of comment #6 do a check throughout the document to see if we need to add "fixed" in front of all occurrences of "BWA" or "broadbawireless access". Exceptions are quoted text and page 25 line 20.	
As a consequence of comment #6 do a check throughout the document to see if we need to add "fixed" in front of all occurrences of "BWA" or "broadbawireless access". Exceptions are quoted text and page 25 line 20.	
	and
Reason for Recommendation:	
Comment # EN-24 Comment submitted by: Editor's Note	
Type Starting Page Number Starting Line Number Section	
Balloter's Suggested Change:	
Balloter's Reason:	
Decision: Accepted Recommendation by: editor	
Proposed Resolution:	
Gender neutral usage. Instead of "he" use "he or she" and instead of "his" use "his or her" (IEEE Style Manual clause 13.3)	
Reason for Recommendation:	

# IEEE 802.16 Letter Ballot #2: To approve Document IEEE 802.16.2/D2-2001 and forward it for Sponsor BallotVoting Report: 2001/02/07including Recirculation Ballot 2a and followup discussions

Approve	Approval Ratio	Abstain
73	100.0%	10
Disapprove	Condition Met	Ballots
0	Yes	83
Votes		Member Total
73		134



Last Name	First Name	Current Vote
An	Song	Abstain for lack of time
Arefi	Reza	Approve with no comments
Arrakoski	Jori	Approve with no comments
Arunachalam	Arun V.	Approve with no comments
Avivi	Eli	Approve with no comments
Baragar	Ian	Approve with no comments
Baugh	C. R.	Approve with no comments
Belfiore	Carlos	Approve with no comments
Benyamin-Seeyar	Anader	Approve with no comments
Bilotta	Tom	Abstain for lack of time
Buskila	Baruch	Approve with no comments
Chang	Dean	Approve with no comments
Chayat	Naftali	Approve with no comments
Chayer	Rémi	Approve with no comments
Condie	Mary	Abstain for lack of technical expertise

Last Name

First Name

#### Vote

Costa	Jose	Approve with non-binding comments
Currivan	Bruce	Approve with no comments
Dotan	Amos	Approve with no comments
Eidson	Brian	Approve with no comments
Eklund	Carl	Approve with no comments
Falconer	David	Approve with no comments
Fishel	George	Approve with non-binding comments
Florea	Adrian	Approve with non-binding comments
Foster	Robert	Approve with no comments
Freedman	Avraham	Approve with no comments
Garrison	G. Jack	Approve with no comments
Germon	Richard	Approve with no comments
Guillemette	Phil	Abstain for lack of time
Hadad	Zion	Approve with no comments
Halachmi	Baruch	Abstain for lack of technical expertise
Hamilton	Michael	Approve with no comments
Hosur	Srinath	Approve with no comments
Hum	Coleman	Approve with no comments
Hunter	Wayne	Approve with no comments
Jacobsen	Eric	Approve with no comments
Jamali	Hamadi	Approve with no comments
Jorgensen	Jacob	Approve with no comments
Kang	Inchul	Approve with no comments

	me	
- 1 -		

First Name

#### Vote

	i iist Name	Vote
Kasslin	Mika	Abstain for lack of time
Kiernan	Brian	Approve with no comments
Kitroser	Itzik	Abstain for lack of technical expertise
Klein	Allan	Approve with no comments
Klein	Jay	Approve with no comments
Kolze	Tom	Abstain for other reasons
Kostas	Demosthenes	Approve with no comments
Langley	John	Approve with no comments
Leiba	Yigal	Approve with no comments
Lewis	Barry	Approve with non-binding comments
Liebetreu	John	Approve with no comments
Lindh	Lars	Approve with non-binding comments
Lucas	Fred	Approve with no comments
Marin	Scott	Approve with no comments
Marks	Roger	Approve with non-binding comments
McGregor	Andy	Approve with no comments
Meyer	Ronald	Approve with no comments
Middleton	Andrew	Approve with no comments
Monk	Anton	Approve with no comments
Myers	William	Approve with no comments
Padan	Uzi	Approve with no comments
Park	Yunsang	Approve with no comments
Petry	Brian	Approve with no comments

Last Name

First Name

#### Vote

Petry	Brian	Approve with no comments
Ran	Moshe	Approve with non-binding comments
Reible	Stanley	Approve with no comments
Resheff	Guy	Approve with no comments
Ribner	David	Approve with no comments
Robinson	Eugene	Approve with no comments
Roehr	Walt	Approve with no comments
Satapathy	Durga	Approve with non-binding comments
Sater	Glen	Approve with no comments
Scaringi	Vito	Approve with no comments
Schafer	David	Approve with no comments
Shahar	Menashe	Approve with no comments
Shirali	Chet	Approve with no comments
Stamatelos	George	Approve with no comments
Stanwood	Ken	Abstain for lack of time
Thompson	Paul	Approve with no comments
Trinkwon	David	Abstain for lack of technical expertise
van Waes	Nico	Approve with no comments
Wachira	Muya	Approve with non-binding comments
Whitehead	Philip	Approve with non-binding comments
Zeng	Chaoming	Approve with no comments
Zuniga	Juan-Carlos	Approve with no comments