September 2007		IEEE P8	02.11k D8.0 Radio Reso	ource Meas	urements cor	nments		802-11-07/2422r0
<i>Cl</i> 00 SC 0 Chaplin, Clint F	Р	L	# 214	<i>CI</i> 00 PAINE, RI	SC 0 CHARD H	P1	L 22	# 33
working group nee	owing is a list of participants in the	Working Gro	Editor & CRgroup oup." The name of the	Comment LB103 Suggested	#21-Marshall: A	Comment Status A mendment number is missing		Editor & CRgroup
SuggestedRemedy Fill in the name of	the working group			•	je to "Amendme			
Response ACCEPT.	Response Status C			Response ACCE		Response Status C		
<i>Cl</i> 00 SC 0 Chaplin, Clint F	Р	L	# 215	<i>CI</i> 00 PAINE, RI	SC 0 CHARD H	P1	L 28	# 34
Comment Type EF Page iv: Tim Godf SuggestedRemedy	frey is no longer the secretary of I		Editor & CRgroup	Suggested	#22-Marshall: 8	<i>Comment Status</i> A 02.11 Revision will be 2007, n	ot 2007.	Editor & CRgroup
Replace the name Response ACCEPT.	e with the current secretary of 802 Response Status C	.11.		Response ACCE		Response Status C		
C/ 00 SC 0	Р	L	# 245	<i>CI</i> 00 PAINE, RI	SC 0 CHARD H	<i>P</i> 1	L 51	# 35
	R Comment Status A ependency on TGn. This is not co to a TGn clause. If there is such a			Suggested	#23-Marshall: C	Comment Status A copyright in page footer needs	to be update	Editor & CRgroup d for 2007
	d any inadvertent reference to TG ne to remove dependency on TGn	,	TGn reference found.	Response ACCE		Response Status C		
	Response Status C ICIPLE. Additional research has s No text change is needed.	shown that ther	re is no reference to TGn					

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September 2007	
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IEEE P802.11k D8.0 Radio Resource Measurements comments

C/ 00 SC Kwak, Joseph A	0	P 119	L	# 248		<i>CI</i> 00 Kays, Rue	SC ediger
Comment Type Annex D deso	E criptions do	Comment Status A not match descriptions el	swhere in text.		Editor	Comment Numb	<i>Type</i> pering of
SuggestedRemed Correct Anne 11.		criptions to reflect definiti	ions and descript	tions in clauses 7	' and	to	dRemea ge "3.7a access
document ed	PRINCIPLE.	Response Status C This comment is deeme ideration in developing fut essionally prior to publica	ture drafts. Pleas		EEE	Response ACCE docur	
C/ 00 SC	0	P 2	L 49	# 226		C/ 01	SC
Hansen, C J						Kays, Rue	
reception of a different set c	a frame or se of time when	Comment Status A se. In practice, received s et of frames. The noise is no frames are being rece	measured as an	average over a	U		<i>Type</i> 802.11-2 ence she
is defined in s		.41				Suggeste	dRemea
individual frar	efinition here	and throughout documer combination of a received e noise measurement.			(or set	"This 2. Intr	ange line amendn roduce n omplete
Response		Response Status C				Response)
frame. ANPI implementation 11.10.8.4 pro received fram	may be mea ons, no singl vides severa ne during idle	For RSNI calculation, R asured over any time peri- le measurement impleme al suggestions on means e channel time. There are an estimate ANPI/RSNI a	od. ANPI is definent to measure ANPI to measure ANP e other permitted	ned to permit mar is required Clau I separately from I ANPI implement	ny use i the tations.	ACCE	EPT.

received frame during idle channel time. There are other permitted ANPI implementations. Techniques exist which can estimate ANPI/RSNI accurately from digital signal processing on the samples of a received frame. These techniques to measure ANPI during a received frame are also permitted. P3L2: add new sentence: "Note that RCPI and ANPI might not be measured simultaneously; see 11.10.8.4 for details."

<i>CI</i> 00 Kays, Rue	SC 0 ediaer	P	2	L 8	# 110
Comment	t Type	E Comment Statu lefinitions not consistent.	s A		Editor
Chan to	dRemedy ge "3.7a a access p	access point"			
docu	EPT IN PF	Response Statu RINCIPLE. This comment is or for consideration in deve edited professionally prior to	s deemed editor oping future dra		
C/ 01	SC 1	P	1	L 29	# 109
Kays, Ru	ediger				
Comment	t Type	G Comment Statu	s A		Editor
		006 is not available outside uld therefore be made to 80			802.11-2007.
Suggeste	dRemedy				
"This 2. Inti		ent is based on IEEE Std 8 mbering scheme for figures		defined in 802.11	-2007 through
Response	e	Response Statu	s C		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

Comment ID # 109

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September 2007		IEEE P8	02.11k D8.0 Radio Reso	ource Meas	surements co	omments		802-11-07/2422r0
CI 03 SC 3 PAINE, RICHARD H	P 2	L	# 15	<i>CI</i> 03 PAINE, R	SC 3 ICHARD H	P 2	L 37	# 6
definitions apply. The referenced for terr	Comment Status A ns: "For the purposes of this doct The Authoritative Dictionary of IEB ns not defined in this clause." this is doing here. Is it an insert,	EE Standard Te	rms [Bn] should be	yet th	#17-Aboba: The le definition of "v use rogue Acces	Comment Status A e term "validated" has been rem validated AP" is still present. Va ss Points must not be included	lidation is an in	nportant concept
SuggestedRemedy				00	dRemedy			
Either remove (if p	eart of the baseline) or preceed by	y an appropriate	editorial instruction.	Resto	ore the use of th	e term "validated".		
document editor for	CIPLE. This comment is deemed or consideration in developing futu ed professionally prior to publicat P2	ure drafts. Plea		Howe gener valida forma	ever, the terms a rically as any AF ated APs. This s at. P60L9 replace	PLE. P60L9. The Neighbor Rep and definitions have been clarifi P within radio range, but Neighb should be explicitly noted in the ce "contains the Neighbor Repo nents for validated APs".	ed so that a Ne or Report elem Neighbor Repo	ighbor AP is defined ents shall contain only ort response frame
Comment Type ER LB103#24-Marsha	Comment Status A II: New definitions are inserted by	y their number, i	Editor & CRgroup not alphabetically	C/ 03 Ecclesine	SC 3 , Peter	P 2	L 37	# 117
SuggestedRemedy Delete "in alphabe	tical order" from editing instructio	ons			ition of neighbor	Comment Status A AP uses the term 'potential tra		
Response ACCEPT.	Response Status C			transi	ition or 11.2.2.3	describe what 'transition' means STA Power-state transitions.	s in P802.11k c	ontext - e.g. BSS-
				S <i>uggeste</i> It sho	•	in the definition, or be defined i	n Clause 3.	
				Response	9	Response Status C		
				ACCE	EPT. Add a nev	v definition in Clause 3: "BSS t	ransition: A ST	A movement from one

Page 3 of 50

BSS to another BSS." Also change P2L37 from "potential transition candidate" to "potential BSS transition candidate".

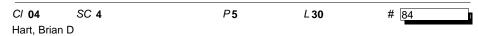
	ber 2007			2.11k D8.0 Radio Reso			minents		802-11-07/2422r0
<i>CI</i> 03 PAINE, R	SC 3 ICHARD H	P2	L 5	# 38	<i>CI</i> 03 PAINE, RI	SC 3.75a ICHARD H	P 2	L 29	# 14
Comment LB10 defini	3#26-Marshall: Th	Comment Status A his paragraph is not a definitic	on, and does no	Editor & CRgroup t belong in a clause of	Comment LB103		Comment Status		Edito
Suggeste	dRemedy	territere et lies E			Suggested Scan		ensure every i.e. and e.	g. is followed by a co	omma.
	e the paragraph s	0			Response	•	Response Status	C	
Response ACCE		Response Status C			docun	nent editor for c	PLE. This comment is de onsideration in developin professionally prior to pu	ng future drafts. Plea	
<i>CI</i> 03 PAINE, R	SC 3 ICHARD H	P 2	L 5	# 37	<i>Cl</i> 04 Hart, Briar	SC 4	P3	L 30	# 83
Comment		Comment Status A		Editor & CRgroup	Comment		Comment Status	5	Har
for all	3#25-Marshall: Au IEEE documents eeded.	uthorative Dictionary of IEEE through the 2005 Style Guid	Standard Terms e. Reference to	s is already being cited it in individual drafts is	Comm As dis	nent applies beg cussed in 07/53	ginning p3L30 and ends 35r0, the MP is presently	p174 v broken since it miss	
Suggeste	<i>dRemedy</i> e the paragraph s	starting at line 5			use ca	ases for MPs ar	e looked into, considerin cient justification for MPs	ig both the costs and	benefits of MPs,
Delete									
Response		Response Status C					Straw Poll - Are you in f er will provide editor inst		easurement Pilot [Y/N/A
	EPT.	Response Status C			=] 10, Suggestee	/0/0". Comment dRemedy	er will provide editor inst		
Response ACCE Cl 03	SC 3	Response Status C	L 8	# [39	=] 10, Suggestee There	/0/0". Comment dRemedy fore remove the	er will provide editor inst MP from the draft.	tructions	
Response ACCE Cl 03	EPT.	P 2	L 8		=] 10, Suggested There Response	/0/0". Comment d <i>Remedy</i> fore remove the	er will provide editor inst MP from the draft. <i>Response Status</i>	tructions	easurement Pilot [Y/̈N/A
Response ACCE CI 03 PAINE, R Comment	SC 3 ICHARD H <i>Type</i> ER			Editor & CRgroup	=] 10, Suggested There Response REJE	/0/0". Comment d <i>Remedy</i> fore remove the	er will provide editor inst MP from the draft. <i>Response Status</i> ent Pilots are modified as	tructions	easurement Pilot [Y/̈N/A
Response ACCE Cl 03 PAINE, R Comment LB103 Suggeste	SC 3 ICHARD H <i>Type</i> ER 3#27-Marshall: N	P2 Comment Status A		Editor & CRgroup	=] 10, Suggested There Response REJE many C/ 04	/0 [/] 0". Comment dRemedy fore remove the CT. Measureme	er will provide editor inst MP from the draft. <i>Response Status</i> ent Pilots are modified as	tructions	easurement Pilot [Y/̈N/A
Response ACCE C/ 03 PAINE, R Comment LB103 Suggeste chang Response	SC 3 ICHARD H <i>Type</i> ER 3#27-Marshall: No dRemedy ge to "3.4a"	P2 Comment Status A	cess point reach	Editor & CRgroup ability" incorrect	=] 10, Suggester There Response REJE many C/ 04 Eastlake, Comment VoIP i	/0/0". Comment dRemedy fore remove the CT. Measureme of the comment SC 4 3rd, Donald E <i>Type</i> E	er will provide editor inst MP from the draft. <i>Response Status</i> ent Pilots are modified as ter's concerns. <i>P</i> 3 <i>Comment Status</i> dmendment but not defin	tructions J s described in 07/053 L 31	easurement Pilot [Y/̈́N/A 35r5, which addresses # 221 <i>Edito</i>
Response ACCE C/ 03 PAINE, R Comment LB103 Suggeste chang Response	SC 3 ICHARD H <i>Type</i> ER 3#27-Marshall: No dRemedy ge to "3.4a"	P2 Comment Status A umbering for definition of "acc Response Status C	cess point reach	Editor & CRgroup ability" incorrect	=] 10, Suggested There Response REJE many C/ 04 Eastlake, Comment VoIP i standa	/0 ⁷ 0". Comment dRemedy fore remove the CT. Measureme of the comment SC 4 3rd, Donald E <i>Type</i> E is used in this a ard, 802-11-200 dRemedy	er will provide editor inst MP from the draft. <i>Response Status</i> ent Pilots are modified as ter's concerns. <i>P</i> 3 <i>Comment Status</i> dmendment but not defin	tructions J s described in 07/053 L 31	easurement Pilot [Y/̈́N/A 35r5, which addresses # 221 <i>Edito</i>
Response ACCE C/ 03 PAINE, R Comment LB102 Suggeste chang Response	SC 3 ICHARD H <i>Type</i> ER 3#27-Marshall: No dRemedy ge to "3.4a"	P2 Comment Status A umbering for definition of "acc Response Status C	cess point reach	Editor & CRgroup ability" incorrect	=] 10, Suggested There Response REJE many C/ 04 Eastlake, Comment VoIP i standa	/0/0". Comment dRemedy fore remove the CT. Measureme of the comment SC 4 3rd, Donald E <i>Type</i> E is used in this are ard, 802-11-200 dRemedy 'oIP as an acror	er will provide editor inst MP from the draft. <i>Response Status</i> ent Pilots are modified at ter's concerns. <i>P3</i> <i>Comment Status</i> dmendment but not defin 7.	tructions J s described in 07/053 L 31 A ned in the amendmen	easurement Pilot [Y/̈́N/A 35r5, which addresses # 221 <i>Edito</i>

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
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 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Comment ID # 221
 9/19/2007 6:39:12

Hart

CRgroup



Comment Type TR Comment Status A

07/0535r2 considers the use cases for MPs and finds little benefit in MPs once their costs are properly accounted for. MPs need to be removed or at least fixed. 1) MPs consume too much medium time. 2) There is no way to determine that any client is actually using the MPs. 3) Even so, MPs still consume too much medium time, so not all APs can transmit MPs all the time.

SuggestedRemedy

Preferably remove MPs. Otherwise 1) Remove virtual AP inefficiency. 2) MPs should not be TX at high pps if never used. 3) Thus not all APs should transmit MPs. As a first consideration, an AP should not enable MPs if enabling MPs would cause: a) more than 10% of the medium time at the AP to be consumed by beacons and MPs transmitted by any source: b) more than 5% of the medium time at the AP to be consumed by MPs transmitted by any source. As a second consideration, MPs may be most useful when transmitted at ingress and egress points of the ESS to support roaming between an 802.11 ESS and other networks, and relatively less useful elsewhere. As a third consideration. APs transmitting MPs may disable MPs whenever no STAs are expected to be using them. How this is determined is out of scope of this standard, but: a) MPs may be disabled when few STAs are reporting MP Actively Used presently and at similar times in the past: b) MPs may be enabled when many STAs are reporting MP Actively Used presently or at similar times in the past. As a fourth consideration, MPs may be more useful in bands subject to DFS regulations and less useful elsewhere. As a fifth consideration, MPs may be more useful in bands with many channels and less useful elsewhere. As a sixth consideration. MPs may be disabled to provide additional medium time for other traffic particularly call admitted traffic. Non-AP STAs should be advised that due to considerations such as those listed, APs may not transmit MPs at all times or in all bands.

Response

ACCEPT IN PRINCIPLE. Editor to implement 07/0535r5.

Response Status C

CI 05	SC 5	P 89	L13	# 234
Hansen, C J				

Comment Type TR Comment Status R

"NOTE--Since measurements on non-operating channels could potentially degrade a station's performance,

non-operating channel measurements should be requested sparingly and for short durations." This language is too weak and does not do enough to protect network performance from poorly organized or excessive measurement requests that could severely degrade QoS. Don't leave this to the WiFi alliance to solve. This should be resolved in the IEEE.

SuggestedRemedy

Add specific requirements for when non-operating channel measurements can be made. For example, if an AP has data queued for a particular STA it is not allowed to request nonoperating channel measurements for that STA. This needs to be a requirement on the AP, not on the STA. Only STAs have low activity (in terms of communicated data frames in either direction with the AP) should be requested to make non-operating channel measurements.

Response Response Status C

REJECT. The suggested remedy is beyond the scope of 11k, e.g. if the measuring STA is operating on a noisy channel the user's policy may be to find a quieter channel, requiring

SuggestedRemedy

Change "specification" to "service" to better integrate this to the base standard

Response Response Status C

ACCEPT. P3L47 change "specification" to "service".

September 2007		IEEE P80	2.11k D8.0 Radio Resc	ource Measure	ments com	iments		802-11-07/2422r0
C/ 05 SC 5.2.7 Ecclesine, Peter	P 4	L 17	# 154	<i>Cl</i> 05 S Palm, Stephen	SC 5.2.7.10 N R	P6	L 6	# 237
happens when the resp	Comment Status A response-only measurement i bonding STA inplements the op		Hart requested, and only	Comment Type "is like an" SuggestedRen	' is colloquial	Comment Status A		Kwak
sentence of 5.2.7 acco 07/2158r1). <i>Response</i>	ponse-only mechanism - Meas rdingly, or remove measureme <i>Response Status</i> C .E. Editor to implement 07/053	nt pilots (as sp		Response ACCEPT I	N PRINCIPL	quality language <i>Response Status</i> C E. P6L6 replace first senten eport exchange provides me		
C/ 05 SC 5.2.7.10	P6	L6	# [10	CI 05 S PAINE, RICHA	SC 5.2.7.10 ARD H	P6	L 7	# 11
PAINE, RICHARD H Comment Type TR LB96#22-Palm: What i SuggestedRemedy Define or delete	Comment Status A s an "RF ping"?		Kwak	SuggestedRen Delete sen	Palm: A meas nedy	Comment Status A surement does enable "unde	erstaning" It's j	CRgroup ust a measurement
Response ACCEPT IN PRINCIPL	Response Status C E. See resolution in CID#237.			Response ACCEPT I indicates".		Response Status C E. P6L7 replace "enables un	iderstanding" wi	th "measurement
C/ 05 SC 5.2.7.10 Palm, Stephen R	P6	L 6	# 238	C/ 05 S Palm, Stephen	SC 5.2.7.10 n R	P 6	L 7	# 239
<i>Comment Type</i> TR What is an "RF ping"?	Comment Status A		Kwak	Comment Type A measure		Comment Status A nable "understaning" It's ju	ust a measurem	Kwak ent
SuggestedRemedy Define or delete				SuggestedRen Delete sen	•			
Response ACCEPT IN PRINCIPL	Response Status C E. See resolution in CID#237.					Response Status C E. P6L7 replace "enables un a repeat of CID#11.	nderstanding" wi	th "measurement

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September 2007			IEEE P80	2.11k D8.0 Radio Reso	urce Measu	urements con	nments			802-11-07/2422r0
<i>CI</i> 05 SC 5.2. PAINE, RICHARD H	7.10	P6	L 8	# 8	<i>CI</i> 05 PAINE, RI	SC 5.2.7.10 CHARD H		P 6	L 8	# 9
	Vhat is the m	mment Status A neaning of "QoS-type" acility nor QoS Servic		<i>CRgroup</i> toS" in this sentence is 802.11e now part of	Suggestea	20-Palm: Where	Comment Sta are "requiremer		or specified?	CRgroup
	nt word than	"QoS" since this mea	surement is unre	lated to the QoS				te the use of		this sentence. P6L8
	, Il delete the	<i>ponse Status</i> C use of QoS-type in thi nents." with "quality o		8 replace "capabilities	C/ 05 Palm, Step	SC 5.2.7.11		P6	L 13	# 240
C/ 05 SC 5.2. Palm, Stephen R Comment Type T I	-	P6	L 8	# 2 <u>35</u> Kwak		51			m the context. W	Kwak /hy transmit and not
i i i i i i i i i i i i i i i i i i i				rtivan	0	Domodu				
		-type" The usage of " Service as specified		ence is not consistent part of 802.11ma.	Suggesteo Clarify	•				
with the QoS Fac SuggestedRemedy Choose a differer functionality Response	ility nor QoS nt word than <i>Res</i> j	Service as specified "QoS" since this mea ponse Status C	in 802.11e now p surement is unre	art of 802.11ma. lated to the QoS	Clarify <i>Response</i> ACCE transm	PT IN PRINCIPL	TS. This STA ca	t Stream Me	transmit delays a	rformed by the STA nd can count retries, text change is needed
with the QoS Fac SuggestedRemedy Choose a differer functionality Response ACCEPT. We wi	ility nor QoS nt word than <i>Res</i> j ill delete the	Service as specified "QoS" since this mea ponse Status C	in 802.11e now p surement is unrel is sentence. P6L	art of 802.11ma. lated to the QoS 8 replace "capabilities	Clarify Response ACCE transm failures here. Cl 05	PT IN PRINCIPL nitting a simplex s and discards, b SC 5.2.7.2	.E. The Transmit TS. This STA ca	t Stream Me	transmit delays a	and can count retries,
with the QoS Fac SuggestedRemedy Choose a differer functionality Response ACCEPT. We wi of a link for QoS C/ 05 SC 5.2. Palm, Stephen R	ility nor QoS nt word than <i>Resj</i> Il delete the type requiren 7.10	Service as specified "QoS" since this mea ponse Status C use of QoS-type in thi nents." with "quality o	in 802.11e now p surement is unrel is sentence. P6L	art of 802.11ma. lated to the QoS 8 replace "capabilities 5 is repeat of CID#8. # 236	Clarify Response ACCE transm failures here. C/ 05 Ecclesine, Comment	PT IN PRINCIPL nitting a simplex s and discards, b SC 5.2.7.2 Peter <i>Type</i> T R	E. The Transmit TS. This STA ca but cannot measu Comment Sta	t Stream Me in measure t ure the rece P5 atus A	transmit delays a ived frames. No <i>L</i> 5	and can count retries, text change is needed # 155 Paine
with the QoS Fac SuggestedRemedy Choose a differer functionality Response ACCEPT. We wi of a link for QoS C/ 05 SC 5.2. Palm, Stephen R Comment Type	ility nor QoS nt word than <i>Resj</i> ill delete the type requiren 7.10 R <i>Cor</i>	Service as specified "QoS" since this mea <i>ponse Status</i> C use of QoS-type in thi nents." with "quality o	in 802.11e now p surement is unrel is sentence. P6L f a link". Note this	art of 802.11ma. lated to the QoS 8 replace "capabilities s is repeat of CID#8.	Clarify Response ACCE transm failures here. C/ 05 Ecclesine, Comment	PT IN PRINCIPL nitting a simplex s and discards, b SC 5.2.7.2 Peter Type TR of the measurem	E. The Transmit TS. This STA ca but cannot measu Comment Sta	t Stream Me in measure t ure the rece P5 atus A	transmit delays a ived frames. No <i>L</i> 5	and can count retries, text change is needed # 155 Paine
with the QoS Fac SuggestedRemedy Choose a differer functionality Response ACCEPT. We wi of a link for QoS C/ 05 SC 5.2. Palm, Stephen R Comment Type	ility nor QoS nt word than <i>Resj</i> ill delete the type requiren 7.10 R <i>Cor</i>	Service as specified "QoS" since this mea ponse Status C use of QoS-type in thi nents." with "quality o P6 mment Status A	in 802.11e now p surement is unrel is sentence. P6L f a link". Note this	art of 802.11ma. lated to the QoS 8 replace "capabilities 5 is repeat of CID#8. # 236	Clarify Response ACCE transm failures here. C/ 05 Ecclesine, Comment None of Suggested Replac	PT IN PRINCIPL nitting a simplex s and discards, to SC 5.2.7.2 Peter Type TR of the measurem dRemedy	E. The Transmit TS. This STA ca but cannot measu <i>Comment Sta</i> ents intentionally ences with some	t Stream Me in measure f ure the rece P5 atus A y provide un	transmit delays a ived frames. No <i>L</i> 5 timely informatio	and can count retries, text change is needed # 155 Paine

September 2007		IEEE P8	302.11k D8.0 Radio Res	ource Measu	rements con	nments		802-11-07/2422r0
<i>CI</i> 05 SC 5.4 PAINE, RICHARD H	P 7	L 3	# 41	<i>CI</i> 07 Ecclesine, F	SC 7.1.3.1.2 Peter	P8	L 18	# 165
	Comment Status III: Instead of inserting a songe" and show the new set	entence into an existir			e of a new frame	Comment Status A e type for Measurement Pilo ction without using a new M		
SuggestedRemedy Show the complete underlining.	e first paragraph of 5.4, ar	nd show the new sent	ence at the end with		Measurement	Pilot frames to use an existi s specified in e.g. 07/2158r1		or remove
Response ACCEPT.	Response Status	С		Response ACCEF	T IN PRINCIPL	Response Status C E. Editor to implement 07/0	535r5.	
<i>CI</i> 07 SC 7.1.3 PAINE, RICHARD H	9.1.2 P8	L11	# 17	<i>Cl 07 O'Hara, Rol</i>	SC 7.2.1.21	P14	L 50	# 187
Comment Type ER LB103#05-Stephe	Comment Status ns: The editing instruction		Editor & CRgroup agree	Comment 7 Clause		Comment Status A ce for normative language in	the description	Ganesh of the frame content
SuggestedRemedy Correct one of the	m			SuggestedI replace	Remedy "shall be" with '	'is"		
	Response Status CIPLE. Assigned to editor ge "Table 11" to "Table 7-	EDITORP8L11: Ch	nange "Table 1" to "Table	Response ACCEF	T IN PRINCIPL	Response Status C E. Doc 07/2314r0. Definitior	n moved to 7.4.6	.3
<i>CI</i> 07 SC 7.1.3 PAINE, RICHARD H	9.1.2 P8	L 12	# 42					
Comment Type ER LB103#30-Marsha	<i>Comment Status</i> II: Table is 1, not 11.	Α	Editor & CRgroup					
SuggestedRemedy Change to Table 1								
	Response Status CIPLE. Assigned to editor ige "Table 11" to "Table 7-	. EDITORP8L11: C	hange "Table 1" to "Table					

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IEEE P802.11k D8.0 Radio Resource Measurements comments

C/ 07 SC 7.2.3.1 P8 L 33 # 121 Ecclesine, Peter	C/ 07 SC 7.2.3.1 P9 L9 # 86 Hart, Brian D
Comment Type TR Comment Status A Kwak	Comment Type TR Comment Status R Ha
Here and elsewhere in this Amendment, normative text about when dot11MultiDomainCapabilityEnabled is true is deleted, without the qualification of dot11RadioMeasurementEnabled being applied. It is not clear that RadioMeasurement procedures work with FH PHYs, and it is not clear whether legacy FH operation could be affected by deleting normative requirements. The FH PHY clause is not modified for RCPI by this amendment.	802.11k adds elements to the beacon (and probe response) and thus exacerbates beacon bloat. These elements exist even when they are repeated across virtual APs. This is clearl an inefficiency which can be avoided if STAs understand "Non Non Transmitted BSSIDs" SuggestedRemedy Commenter withdraws the comment
SuggestedRemedy	Response Response Status C
Choose between making Radio Measurements work with FH PHYs and removing any 802.11k normative text changes about FH Parameters and Patterns. Modify draft accordingly.	REJECT. This comment was WITHDRAWN by the commenter.
Response Response Status C	
ACCEPT IN PRINCIPLE. Commenter is correct that Radio Measurements are not specified for operation with FH PHYs. The TGk draft exercises care to not modify the specification for FH operation. In this clause 4 sentences are deleted. The first sentence	This comment was WITHDRAWN by the commenter.
is a redundant requirement which is is also provided in Table 8 which follows. The second and fourth sentences are informational notes only and are not appropriate for clause 7 format description. The third sentence is a FH requirement which has been relocated to	C/ 07 SC 7.2.3.1 P9 L9 # 85 Hart, Brian D
and fourth sentences are informational notes only and are not appropriate for clause 7 format description. The third sentence is a FH requirement which has been relocated to Clause 9.8.2.1 on P60L25. In this way TGk has editorially cleaned up this clause following suggestions from previous comments without modifying the requirements for FH and other legacy STAs. No text change is needed here.	
and fourth sentences are informational notes only and are not appropriate for clause 7 format description. The third sentence is a FH requirement which has been relocated to Clause 9.8.2.1 on P60L25. In this way TGk has editorially cleaned up this clause following suggestions from previous comments without modifying the requirements for FH and other	Hart, Brian D Comment Type TR Comment Status A Ha 802.11k adds elements to the beacon (and probe response) and thus exacerbates beacon bloat. These elements exist even when they do not contain additional or unexpected information. This is clearly an inefficiency without benefit SuggestedRemedy
and fourth sentences are informational notes only and are not appropriate for clause 7format description. The third sentence is a FH requirement which has been relocated toClause 9.8.2.1 on P60L25. In this way TGk has editorially cleaned up this clause followingsuggestions from previous comments without modifying the requirements for FH and otherlegacy STAs. No text change is needed here.Cl 07SC 7.2.3.1P8L44173	Hart, Brian D Comment Type TR Comment Status A Ha 802.11k adds elements to the beacon (and probe response) and thus exacerbates beacon bloat. These elements exist even when they do not contain additional or unexpected information. This is clearly an inefficiency without benefit SuggestedRemedy Remove these inefficiencies. Commenter will provide text. Response Response Status C
and fourth sentences are informational notes only and are not appropriate for clause 7 format description. The third sentence is a FH requirement which has been relocated to Clause 9.8.2.1 on P60L25. In this way TGk has editorially cleaned up this clause following suggestions from previous comments without modifying the requirements for FH and other legacy STAs. No text change is needed here.	Hart, Brian D Comment Type TR Comment Status A Hatter that the second status 802.11k adds elements to the beacon (and probe response) and thus exacerbates beacond bloat. These elements exist even when they do not contain additional or unexpected information. This is clearly an inefficiency without benefit SuggestedRemedy Remove these inefficiencies. Commenter will provide text.
and fourth sentences are informational notes only and are not appropriate for clause 7 format description. The third sentence is a FH requirement which has been relocated to Clause 9.8.2.1 on P60L25. In this way TGk has editorially cleaned up this clause following suggestions from previous comments without modifying the requirements for FH and other legacy STAs. No text change is needed here. C/ 07 SC 7.2.3.1 P8 L44 # 173 O'Hara, Robert Comment Type TR Comment Status A Kwak Clause 7 is not the place for normative language in the description of the frame content	Hart, Brian D Comment Type TR Comment Status A Ha 802.11k adds elements to the beacon (and probe response) and thus exacerbates beacon bloat. These elements exist even when they do not contain additional or unexpected information. This is clearly an inefficiency without benefit SuggestedRemedy Remove these inefficiencies. Commenter will provide text. Response Response Status C
and fourth sentences are informational notes only and are not appropriate for clause 7 format description. The third sentence is a FH requirement which has been relocated to Clause 9.8.2.1 on P60L25. In this way TGk has editorially cleaned up this clause following suggestions from previous comments without modifying the requirements for FH and other legacy STAs. No text change is needed here. Cl 07 SC 7.2.3.1 P8 L44 # 173 O'Hara, Robert Comment Type TR Comment Status A Kwak Clause 7 is not the place for normative language in the description of the frame content SuggestedRemedy replace all "shall" and "may" usage with "is" and "can", or other appropriate descriptive	Hart, Brian D Comment Type TR Comment Status A Hat 802.11k adds elements to the beacon (and probe response) and thus exacerbates beacon bloat. These elements exist even when they do not contain additional or unexpected information. This is clearly an inefficiency without benefit Hat SuggestedRemedy Remove these inefficiencies. Commenter will provide text. Response Response Status C ACCEPT IN PRINCIPLE. Editor to implement 07/2302r4 Sect1 Cl 07 SC 7.2.3.4 P 9 L 31 # 174
and fourth sentences are informational notes only and are not appropriate for clause 7 format description. The third sentence is a FH requirement which has been relocated to Clause 9.8.2.1 on P60L25. In this way TGk has editorially cleaned up this clause following suggestions from previous comments without modifying the requirements for FH and other legacy STAs. No text change is needed here. C/ 07 SC 7.2.3.1 P8 L44 # 173 O'Hara, Robert Comment Type TR Comment Status A Kwak Clause 7 is not the place for normative language in the description of the frame content SuggestedRemedy replace all "shall" and "may" usage with "is" and "can", or other appropriate descriptive verbs throughout clause 7. Response Response Status C	Hart, Brian D Comment Type TR Comment Status A Hat 802.11k adds elements to the beacon (and probe response) and thus exacerbates beacon bloat. These elements exist even when they do not contain additional or unexpected information. This is clearly an inefficiency without benefit Hat SuggestedRemedy Remove these inefficiencies. Commenter will provide text. Response Response Status C ACCEPT IN PRINCIPLE. Editor to implement 07/2302r4 Sect1 C/ 07 SC 7.2.3.4 P9 L 31 # 174 O'Hara, Robert Comment Type TR Comment Status A Kw

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
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 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
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 SORT ORDER:Clause, Subclause, page, line
 9/19/2007 6:39:10

IEEE P802.11k D8.0 Radio Resource Measurements comments

C/ 07 SC O'Hara, Robert	7.2.3.5	P 10	L7	# 175	<i>CI</i> 07 PAINE, RI	SC 7.2.3.5 CHARD H	P10	L 8	# 1
SuggestedReme	edy shall" and "r	Comment Status A e for normative language i nay" usage with "is" and "o 7. Response Status C	·		LB96# the info respec associ descrit cluase clause from th include sense primitiv This in reasso reveale answe needed	22-Engwer: Cla prmation includ tively. Presum ation request a bed in clause 1 11 of how thes 11. Further, cl e AP STA's M t those factors that the values res, but the values turn allows ind ciation responsed. Is the inform is the MLME d in clause 11. ating STA's SM	Comment Status A auses 7.2.3.5 and 7.2.3.7 show led in the association response bly these are the RCPI and RS nd reassociation request frame 0 (10.3.6.4.2 and 10.3.7.4.2) w se values are actually used, bu auses 10.3.6.4.2 and 10.3.7.4. LME to the AP STA's SME, pri in it's decision to grant associa are exposed as part of the ass ues are also returned to the M clusion of the RCPI and RSNI w se frames respectively. But ag nation intended for the associa then a description of how this I If the intended receipient of th IE then the RCPI and RSNI va ciate .confirm primitives.	e and reassocia SNI measured o es received by t whereas I would tt I can't find wh 2 expose the R esumably so that ation/ reassocia sociate/ reasso LME as part of values in the as ain the purpose ating STA's MLM MLME utilizes the e RCPI and RS	tion response frames n the corresponding he AP, but this is only expect a description in ere this is described in CPI and RSNI values at the AP SME can tion or not. It makes ciate .indication the .response primitive. sociation response and in doing so is never <i>I</i> E or SME? If the his information is NI values is the
					Suggested				
					reasso and re- Sugge instand regard Or, ren descrip Or, add which	ciation respons associate .resp stion: add text tes under which hove the RCPI bition is provide d the RCPI and will push the co	including the RCPI and RSNI se frames and align that with the ponse and .confirm primitives a to clause 11 to define and des h this information is used, and and RSNI values from the ass d for how it is to be used. I RSNI values to the association prresponding responsibility for in n both ends of the link).	ne appropriate o as needed. cribe the purpos leave clause 10 sociation respor on/ reassociatio	changes to the associate se and specific) unchanged in this use frames since no n .confirm primitives
					Response		Response Status C		
					on botl acting RCPI a to Joe	n ends of the lin on these value and RSNI value	and RCPI values to the associ nk. This will push the corresponse s into the SME. At the STA, the s for received frames at both or approval. Text changes in (onding responsi ne .confirm prim ends of the ass	bility for interpreting and itive should contain ociation link. Assigned

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER:Clause, Subclause, page, line

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IEEE P802.11k D8.0 Radio Resource Measurements comments

C/ 07 So O'Hara, Robert	C 7.2.3.6	P10	L 20	# 176	<i>CI</i> 07 PAINE, RIC	SC 7.2.3.7 CHARD H	P10	L 32	# 2			
Comment Type Clause 7 is SuggestedRem replace all	not the place <i>edy</i> 'shall" and "ma ghout clause 7	Comment Status A for normative language in t ay" usage with "is" and "can '. Response Status C			<i>Comment Type</i> TR <i>Comment Status</i> A <i>H</i> LB96#03-Engwer: Clauses 7.2.3.5 and 7.2.3.7 show the addition of the RCPI and RSNI the information included in the association response and reassociation response frames respectively. Presumbly these are the RCPI and RSNI measured on the corresponding association request and reassociation request frames received by the AP, but this is onl described in clause 10 (10.3.6.4.2 and 10.3.7.4.2) whereas I would expect a description clause 11 of how these values are actually used, but I can't find where this is described clause 11. Further, clauses 10.3.6.4.2 and 10.3.7.4.2 expose the RCPI and RSNI values from the AP STA's MLME to the AP STA's SME, presumably so that the AP SME can include those factors in it's decision to grant association/ reassociation response primitives, but the values are also returned to the MLME as part of the .response primitives, but the values are also returned to the MLME as part of the .response primitives are association response frames respectively. But again the purpose in doing so is never revealed. Is the information intended for the associating STA's MLME or SME? If the answer is the MLME then a description of how this MLME utilizes this information is needed in clause 11. If the intended receipient of the RCPI and RSNI values is the associating STA's SME then the RCPI and RSNI values should also be included in the associate and reassociate .confirm primitives.							
				Si	 SuggestedRemedy Clarify the purpose of including the RCPI and RSNI values in the association and reassociation response frames and align that with the appropriate changes to the associant reassociate .response and .confirm primitives as needed. Suggestion: add text to clause 11 to define and describe the purpose and specific instances under which this information is used, and leave clause 10 unchanged in this regard. Or, remove the RCPI and RSNI values from the association response frames since no description is provided for how it is to be used. Or, add the RCPI and RSNI values to the association/reassociation .confirm primitives which will push the corresponding responsibility for intrepreting and acting upon these 							
			·		values to the SME (on both ends of the link). Response Response Status C ACCEPT. Add RSNI and RCPI values to the association/reassociation .confirm primitives on both ends of the link. This will push the corresponding responsibility for interpreting an acting on these values into the SME. At the STA, the .confirm primitive should contain RCPI and RSNI values for received frames at both ends of the association link. Assigned to Joe Kwak for text for approval. Text changes in 07/2165r0 approved in JUL07 by vote a San Francisco meeting.							

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER:Clause, Subclause, page, line

Comment ID # 2

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IEEE P802.11k D8.0 Radio Resource Measurements comments

CI 07 S O'Hara, Robert	C 7.2.3.7	P10	L 32	# 177	<i>C</i> / 07 O'Hara, Ro	SC 7.2 bert	2.3.9	P11	L 24	# 179
Comment Type Clause 7 is		Comment Status A se for normative language in	the description o	<i>Kwak</i> f the frame content		ange to th		Comment Status A of the Request IE in the probe r nclude "any" IEs in two locatior		
verbs throu			n", or other appr	opriate descriptive	signific were no 802.11	ant chang ot previou k, to resp	ge to the Isly dup nd to th	e material added by 802.11d ar licated. This change can lead t le same Request IE in very diff ant implementations of 802.110	nd duplicates to two APs, of erent ways. T	a number of IEs that ne of which implements
Response ACCEPT.		Response Status C			Suggested	Remedy	·			
CI 07 S	C 7.2.3.8	P11	L 8	# 178				at allows duplication of IEs othe e deleted.	r than those :	specified in the original
O'Hara, Robert	t				Response			Response Status C		
Comment Type		Comment Status A		Kwak	ACCEF	PT. Doc 0	7/2314	r0.		
Clause 7 is	s not the place	e for normative language in	the description o	f the frame content	CI 07	SC 7.2	2.3.9	P11	L 31	# 171
SuggestedRen	nedy				Geipel, Mic	hael D				
	"shall" and " ughout claus	may" usage with "is" and "ca e 7.	n", or other appr	opriate descriptive	Comment 1	<i>уре</i> 1	г	Comment Status A		Ganesi
Response ACCEPT.	C 7.2.3.9	Response Status C	L21	# <u>225</u>	Suppos Should I believ [The st be requ	e that the it genera e that the atement t iired. By i	e STA c ite an e empty hat was removir	the information elements that does not support any of the IEs mpty response? Or ignore the response is the correct behavi s removed from this paragraph ng the last line of the paragraph	in the request entire request or. assumed that	? t a response would still
Comment Type	⇒ TR	Comment Status A		Kwak		ore abou	it ignori	ng IEs.]		
I do not thi	nk FH statio	ns will ever add Radio Measu ad in the amendment.	irement, as their			-		ify the response behavior when	none of the	requested IEs are
SuggestedRen	nedy				Response		. 017.	Response Status C		
	ll changes to r FH PHY ch	FH normative text, e.g. 7.2.3 anges.	8.1, 7.2.3.9, 9.8.2	2.1, and review the text		PT IN PRI	INCIPLI	E. Doc 07/2314r0.		
Response		Response Status C								
for operation for FH ope requirement an informa way TGk h comments	on with FH P ration. In thi nt which is is tional note o as editorially	E. Commenter is correct that HYs. The TGk draft exercises s clause 2 sentences are del also provided in Table 15 wh nly and is not appropriate for cleaned up this clause follow lifying the requirements for F	es care to not mo eted. The first s hich follows. The clause 7 format ving suggestions	dify the specification entence is a redundant second sentence is description. In this from previous						

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER:Clause, Subclause, page, line

Comment ID # 171

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IEEE P802.11k D8.0 Radio Resource Measurements comments

CI 07	SC 7.2.3.9	P11	L 31	# 170	C/ 07	SC 7	.2.3.9	P11	L 45	# 181
Geipel, Mi	chael D				O'Hara, Ro	opert				
Comment	51	Comment Status A		Editor	Comment		TR	Comment Status A	handa a sha ƙasa	Kwal
		nly the information elements th llows this one talks about igno		ormatted messages.			•	e for normative language in t	ne description (of the frame content
		only" in this statement weaker			Suggested					
Suggestee	Remedy					e all "sha througho		may" usage with "is" and "cai a 7	n", or other app	ropriate descriptive
		ly" from this statement. Replace			Response	0		Response Status C		
"A ST with	A shall return o	nly the information elements th	hat it supports."		ACCE					
	A shall return th	e information elements that it	supports."							
Response		Response Status C			C/ 07	SC 7	.2.3.9	P 12	L 7	# 152
		LE. This comment is deemed			Ecclesine,	Peter				
		onsideration in developing futu professionally prior to publicati		e note that the IEEE	Comment	Туре	E	Comment Status A		Edito
Stariu	alus ale eulleu							field should include 'as speci	fied in 7.x.x.x' te	ext to give reader
C/ 07	SC 7.2.3.9	P11	L 33	# 180		xt for field				
'Hara, R	obert				Suggester		<i>(</i>			
comment	Type TR	Comment Status A		Ganesh		omment				
		xt leads to potential interopera ations of 802.11d.	ability problems w	ith previously	Response			Response Status C	- d'he de l'en al de	le sete dite di s
	•							E. This comment is deemed sideration in developing futu		
••	dRemedy ate the deleted	toxt						ofessionally prior to publication		
					C/ 07	SC 7	.2.3.9a	P 12	L 27	# 182
Response		Response Status C LE. Reinstate the deleted text	and may ad the t	aut to alougo	O'Hara, R		.2.0.00			102
		ment 07/2314r0.	and moved the t	ext to clause	Comment		TR	Comment Status R		Hai
						•••		rement Pilot has not been pr	oven It.consum	
07	SC 7.2.3.9	P11	L 33	# 118		used for				
cclesine					Suggested	dRemedy	,			
comment	51	Comment Status A		Ganesh	remov	ve the cla	use.			
		int from base standard for ord IE appearance to be both num			Response	,		Response Status C		
•	dRemedy		nonour una roque					t Pilots may be useful in the l	DFS bands befo	ore association, and to
	ge text so that le	egacy STAs can Probe Serving	g APs and receive	e all requested	quickly	y harvest	RSSIs c	during roaming.		
Chang	ation elements.									
Chang		Response Status C								

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

 SORT ORDER:Clause, Subclause, page, line
 Comment ID # 182

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Septen	nber 2007		IEEE P80	2.11k D8.0 Radio Reso	ource Meas	sureme	nts com	nments		802-11-07/2422r0
<i>Cl</i> 07 Hart, Bria	SC 7.2.3.9a n D	P 12	L 35	# 108	<i>Cl</i> 07 Kays, Ru		7.3.1.11	P13	L 48	# 111
trans bene	stamp, beacon int ceiver NF, DS par fits.	Comment Status A erval, most of capability, max ameter set are either redunda			In this	n referenc s table, C	ode 4 is	Comment Status A 2.11-2007, table 24 becomes not defined. no code 4, numbering scheme		<i>Editor</i> anged.
Rem	dRemedy ove or condense					dRemedy dio Measu Reserve	urement	7.4.6		
Response ACC		Response Status C E. Editor to implement 07/05	35r5.			EPT IN P		Response Status C E. This comment is deemed e		
<i>Cl</i> 07 Hart, Bria	SC 7.2.3.9a n D	P 12	L 43	# 104				nsideration in developing futur ofessionally prior to publicatio		se note that the IEEE
Commen MP is	<i>Type</i> TR missing regulato	Comment Status A		Hart	<i>Cl</i> 07 Trainin, S		7.3.1.11	P13	L 50	# 94
Suggeste Add	dRemedy				Comment The c		TR already a	Comment Status A	be referred as	<i>Kwak</i> reserved
Respons ACC		Response Status C E. Editor to implement 07/05	35r5.		S <i>uggeste</i> Fix th			per last know ANA allocation		
Commen		P13 Comment Status A nanges to table 24 don't matc	L 44	# 44 CRgroup	incluc Categ	EPT IN P des TGk. gory value	For TGk	Response Status C E. The TGk draft baseline do c draft purposes, odes 6-126 a listed. This is standard pract for a related correction to this	ire reserved. In ice. No text ch	n the 11n draft, the 11n
curre		and not "5-126". Also, "5" sho			C/ 07 O'Hara, R		7.3.1.18	P14	L 5	# 184
Inser	<i>dRemedy</i> t a row "4 Reserve cstrikethrough>6<	ed -" and change the "5 <unde underlined>"</unde 	rlined> <striketh< td=""><td>rough>6<underlined>"</underlined></td><td>Comment Claus</td><td></td><td>TR t the plac</td><td>Comment Status A e for normative language in th</td><td>ne description</td><td>Kwak of the frame content</td></striketh<>	rough>6 <underlined>"</underlined>	Comment Claus		TR t the plac	Comment Status A e for normative language in th	ne description	Kwak of the frame content
Respons ACC	e EPT. Insert a row	Response Status C "4 Reserved -" and change th hrough>6 <underlined>" to "4-</underlined>		S <underlined>"</underlined>	Suggeste repla Response ACCI	ce "shall : e		"sets" Response Status C		

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Septembe	r 2007		IEEE P80	2.11k D8.0 Radio Reso	ource Measure		802-11-07/2422r0		
<i>Cl</i> 07 O'Hara, Robe	SC 7.3.1.19	P14	L16	# [185	Cl 07 S Hart, Brian D	SC 7.3.1.21	P15	L1	# 105
		Comment Status R rement Pilot has not been pr rposes.	oven. It consum	<i>Hart</i> es bandwidth that is	Comment Type Max TX po reg class a	ower is the m	Comment Status A in of device capability, regula	atory and policy	<i>Ganesh</i> / ; and is superseded by
SuggestedRe remove th	<i>emedy</i> he clause.				SuggestedRer Define cor				
		Response Status C t Pilots may be useful in the during roaming.	DFS bands befo	re association, and to	Measurem	ent Pilot incl	Response Status C E. Since changes in the draf udes removal of Max Tx Pow d to Clause 7.4.6.3. Documer	ver from Measu	rement Pilot, the
C/ 07 O'Hara, Robe	SC 7.3.1.20	P14	L 34	# 186	definition o	of Max Tx Po	ower.		
Comment Typ	be TR	Comment Status A	he description of	Kwak	CI 07 S Kays, Ruedige	SC 7.3.1.21- 2 r	23 P14	L 50	# 112
SuggestedRe		e for normative language in is"	ne description d				Comment Status R rganize WLANs, channel info n +/- 5dB.	rmation should	<i>CRgroup</i> I be delivered with
Response ACCEPT		Response Status C			SuggestedRer Reduce to	-	measurements.		
	SC 7.3.1.21	P14	L 50	# 164	Response REJECT.	Numerous ir	Response Status C	urers have indic	cated that a tolerance of
	pe TR Ismit Power de	Comment Status A finition is incorrect, as it doe g. 4.9425 GHz.	s not include mu	<i>Ganesh</i> Iltiple power limits on	environme	ntal extreme	nd cannot be reduced. The sis (temperature), for the entire . These items drive the tolera	e product lifetin	ne, and for all possible
SuggestedRe Add norm	emedy native text in 1	1.13 about use of multiple er neasurement pilots (as speci							
Response		Response Status C	-						

ACCEPT IN PRINCIPLE. Text inserted in 7.4.6.3. See Doc 07/2314r0.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER:Clause, Subclause, page, line

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Septembe	er 2007		IEEE P80	2.11k D8.0 Radio Res	ource Measure	ments con	nments	802-11-07/2422r0		
C/ 07 Ecclesine, P	SC 7.3.1.4 Peter	P13	L 35	# 141	C/ 07 S Ecclesine, Pet	SC 7.3.2.18 er	P17	L 5	# 119	
subhead in the Ca not 7.3.1	ious Radio Meas ds under a single apability Informa 1.4	Comment Status A surement procedures of 11.1 e 11.10 Radio Measurement ation field to be set to 1. Ann	clause, and all	procedures cause B12		Regulatory (andwidth), sc	Comment Status A Classes where the maximum the TPC report element tex			
be true, dot11Re dot11Mu 11.13 as	11.10 Radio Mea and when dot11 egulatoryClasse ultiDomainCapa s 11.10.1, 11.10	asurement, add text requirin RadioMeasurementEnabled sRequired is true, dot11Spe bilityEnabled is true. Renum .2, 11.10.3, 11.10.4 and cha	d is true, then ctrumManageme ber existing 11.1	entImplemented is true, 10, 11.11, 11.12 and	maximum <i>Response</i> ACCEPT I	MPDU sized	eses to "when transmitting th I-frames allowed for the Regr <i>Response Status</i> C .E. "when transmitting 1500 of maller."	ulatory Class"		
add 11.1 Response ACCEPT	-	Response Status C E. Doc 07/2314r0			CI 07 S PAINE, RICHA	SC 7.3.2.21 ARD H	P18	L 26	# 45	
CI 07 PAINE, RICH Comment Ty	vpe TR	P13 Comment Status A	L 36	# 43 CRgroup	SuggestedRer	-Marshall: "is	Comment Status A s described in Table 28" was	added, but not u	Editor & CRgroup underlined.	
SuggestedR	Remedy	rmative statements don't be ets" and "shall be set" to "se	0		Response ACCEPT.		Response Status C			
Response ACCEPT	T IN PRINCIPLE	Response Status C E. P13L36 Change "shall se to 0" to "and sets it to 0 oth	t" to "sets". P13	L37 Change ",	O'Hara, Rober Comment Type	e TR	P19 Comment Status A	L 20	# [<u>188</u> <i>Kwak</i>	
Cl 07 O'Hara, Rob Comment Ty Clause 7	ype TR	P13 Comment Status A e for normative language in	L 36	# 183 <i>Kwak</i> <i>Kwak</i> of the frame content	SuggestedRer		ce for normative language in " <i>Response Status</i> C	the description	of the frame content	
Clause 7	7 is not the plac	e for normative language in	the description c		,		Response Status C			

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Submission

Response

ACCEPT.

Response Status C

Richard Paine, Boeing

IEEE P802.11k D8.0 Radio Resource Measurements comments

C/ 07 SC 7.3.2.21 O'Hara, Robert	P 19	L 29	# 189	<i>CI</i> 07 PAINE, RI		7.3.2.21.1 D H	0	P 26	L 38	# 18
Comment Type TR Clause 7 is not the pla SuggestedRemedy replace "may"with "car	Comment Status A ce for normative language in "	the description o	<i>Kwak</i> f the frame content	specif Also r FYI: "	3#06-St fically re note tha 3.154 tr	efers to Da it the T in ⁻ raffic strea	Transmit stre ta sent with TID stands fo m (TS): A se	TIDs in the rangor traffic, not trans to f medium ac	ge 8-15 - i.e. for v nsmit. cess control MAC	Editor & CRgroup ne. A transmit stream which a TSID exists. C) service data units
Response ACCEPT. 	Response Status C	L 40	# 46	to the entitie These partice	MAC ir s that s MAC e ular TS	n a particu support Qo entities de	ar traffic spe S within the ermine the 1	ecification (TSPI MAC data servi SPEC application	EC). TSs are me ce. le for delivery of	ameter values provided aningful only to MAC MSDUs belonging to a e MSDUs at the MAC
Comment Type ER	Comment Status A olumn with "Measurement Us	se" has been add	Editor & CRgroup ed.	Suggestee		dy	at daga not	avaluda TIDa 0	7	
SuggestedRemedy				Repla	ce with	a name tr	at does not	exclude TIDs 0-	7.	
Underline "Measurement Use", and add an Editor's Note below Table 29 stating that the addition of a column can't be shown with underline/strikethrough. Response Response Status C ACCEPT IN PRINCIPLE. Assigned to editor. EDITORAccept Suggested Remedy. Also make same change at top of P20.				withou Strear name Strear DECL WITH	ut TSPE m in the (1) Tra m/Categ INE con #3 AS	ECs. This e measure nsmit QOS gory Meas mment an	measureme ment name of Measurem urement (4) d note that th LARIFY NAI	nt applies to bot loes not addres ent (2) Transmi Traffic Stream/(nis seems to be	h kinds of TIDs. s both TS ad TC t Flow Quality Me Category Transm the best name w	gories for QOS traffic The term Traffic traffic. Suggest new easurment (3) Transmit it Measurement. OR ve can provide. GO ACH SUBCLAUSE
				<i>CI</i> 07 Trainin, So		7.3.2.21.4		P 20	L 41	# 100
					efined f		hannel Load	t S <i>tatus</i> R I Request does Hz or 40MHz ch		CRgroup nnel width identification.
				Suggestee Add c		•	tification to t	he Channel Loa	d Request	
				would	CT. Th expect	all of thes	, ft baseline d e 11n specif	ic changes to 1	1k to be included	ne includes TGk. We d in the 11n nents to the next draft of

IEEE P802.11k D8.0 Radio Resource Measurements comments

C/ 07	SC 7.3.2.21.4	P 20	L 48	# 95		C 7.3.2.21.6	P 21	L 46	# 93
Trainin, S	olomon				Hart, Brian D				
Comment	Type TR	Comment Status A		Ecclesine	Comment Type	TR	Comment Status A		Hart
Regul chanr Suggeste	atory Class depen nel frequency and s dRemedy		ntry should be kn	own to specify the	measurem regulatory beacon rec	ent on specifi class) or 255 juest can also	thod of requesting a specific ic channels. The beacon rec (AP channel report) but not b list multiple beacon reques b but is an unnecessarily ver	uest allows for (some specific s sts in a Measure	0 (all channels in the set of channels. The
Chang	ge the sentence ac	dding the word Country: "Co	untry, Regulator	y Class and &"	SuggestedRem	nedv			
Response ACCE		Response Status C .21.4-7 and 7.3.2.22.4-7 per	r suggested resc	olution.	Add option present, the	al AP channe e optional ele	el report element(s) at the er ments cause the request to lass/channel pair at the star	be iterated over	r the concatenation of
C/ 07	SC 7.3.2.21.6	P 21	L 36	# 87			each AP channel report ele		
Hart, Briai	n D				Response		Response Status C		
Comment	Type TR	Comment Status A		Hart	ACCEPT II		E. Editor to implement 07/23	02r4 Sect7	
accep APs.	nting a beacon requ This incurs a high	ing APs, multiple BSSIDs/S uest may have to retransmit burden on the STA and is w	many octets of asteful of mediu	beacons from many m time, when perhaps	Cl 07 S Hart, Brian D	C 7.3.2.21.7	P23	L 39	# 90
		is for the AP to request the guest the STA to report certa			Comment Type	TR	Comment Status A		Hart
Suggester Split t no bo reque	<i>dRemedy</i> he reporting condi dy, 1 = fixed fields	tion into two fields, with 2 M + requested elements only, which IEs if present in the	SBs for a new fig 2 = full. If reque	eld, reporting detail: 0 = est element is present,	unspecifie Channel Lo Measurem measurem	l appended s bad, Noise Hi ent Pause, ar ent fields can	we should explicitly allow fo ub- elements, including VS stogram, Beacon, Frame, S nd Link Measurement Req/F not be extended due to the ow to parse the measureme	sub-elements. T TA stats, LCI, T Rep. However, m presence of opti	his applies to the raffic Stream Metrics, nany of these

Response Response Status C

ACCEPT IN PRINCIPLE. Editor to implement 07/2302r4 Sect3

SuggestedRemedy

Change these fields to allow subelements to be parsible. Commenter will provide text.

Response Response Status C

ACCEPT IN PRINCIPLE. Editor to implement 07/2302r4 Sect6

September 2007			IEEE P802	2.11k D8.0 Radio Reso	ource Measure	802-11-07/2422r0			
<i>CI</i> 07 SC 7.3. PAINE, RICHARD H	2.22	P 31	L11	# 47	<i>CI</i> 07 Trainin, Solom	SC 7.3.2.22.7	P 35	L 35	# 96
Comment Type E LB103#35-Marsh		ent Status A "Measurement Us	se" has been add	Editor & CRgroup ed.		e Report Entr	Comment Status R y format does not contain fie		
		nd add an Editor's wn with underline/s		e 30 stating that the	reserved f later.	ield and does	th and Greenfild mode. The not allow extention. So no v		
Response		se Status C	suikeunougn.			ormat of the Fi	rame Report entry by adding		
ACCEPT.					report ent Response	ry like Informa	ation Element with ID and le Response Status C	ngth to allow exte	ension
CI 07 SC 7.3. PAINE, RICHARD H Comment Type E	R Comme	P 43 ent Status A hould be shown a	L 33	# 54 Editor & CRgroup	REJECT. would exp	ect all of thes	ft baseline does not include e 11n specific changes to 1 nenter is encouraged to pro	1k to be included	d in the 11n
Suggest C1 C2 C	3 C4 C5 C6 C7,	G &Change Figur and add text belo isticsAPAverageA	w the figure with	e items on one row. "C1 is the value of (or	Trainin, Solom Comment Typ	e TR	Comment Status R	L 18	# <u>98</u> <i>Kwak</i>
Response ACCEPT.	Respon	se Status C			SuggestedRe Fix the Fig	medy	lect repetitiveness of the Gr	oup identity and	Statistics Group Data
C/ 07 SC 7.3	2.22.4	P 31	L 46	# 101	Response		Response Status C		
No way to disting SuggestedRemedy Add channel widt Response	at of Channel Lo uish between 20 n identification to	ent Status R pad Report does m MHz or 40MHz ch o the Channel Loa se Status C	annels	<i>CRgroup</i> I width identification.	statisics o Statistics Group Ide Data field repetition frame ma	n only one sta report elemen ntity in the rep are specified in the STA Sta y contain mult	correct. Each STA Statisti atistics group, specified by C t provides statistics for only port. The statistics listed in in Table 31b for each define atistics Report element. Ho iple STA Statistics Request which may be sequentially i	Group Identity in one statistics gr the variable leng ed Group Identity wever, any Meas elements and th	the request. Each STA oup, specified by the th Statistics Group value. There is no surement Request hereby obtain multiple

Comment ID # 98 9/19/2007 6:39:1:

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September 2007		IEEE P802	2.11k D8.0 Radio Reso	ource Measure	ments com	ments		802-11-07/2422r0
<i>Cl</i> 07 <i>SC</i> 7.3.2.22.8 Trainin, Solomon	P37	L 4	# 97	CI 07 S Paine, Richa	SC 7.3.2.22.8 ARD H	P 41	L1	# 49
for new defined MAC/P	Comment Status A counters in each of the defir HY like TGn and TGy.	ned Groups that n	<i>CRgroup</i> nay be very important	Comment Type LB103#37 SuggestedRen	-Marshall: Fig	Comment Status A ure 85i should be show		Editor & CRgroup not split across lines.
Response	tatistics group data to includ <i>Response Status</i> C E. A submission (07/2302r4	U	5	C1 C2 C3	C4 C5 C6, an	d by the TG & Change d add text below the fig punt." and remainder ir <i>Response Status</i> C	gure with "C1 is the similar way.	ms on one row. Suggest e value of (or change
C/ 07 SC 7.3.2.22.8 Trainin, Solomon	P 40	L 13	# 99	C/ 07 S Chaplin, Clint F	C 7.3.2.22.8	P 41	L 17	# 216
Comment Type TR Last row in the Table 3	Comment Status A 1b is defined such a way tha	t does not allow e	Kwak xtension of the table	Comment Type "indexed b		Comment Status A		Kwak
SuggestedRemedy Replace the word "none	e" with "reserved"			SuggestedRen "indexed b	•			
Response ACCEPT.	Response Status C			Response ACCEPT.		Response Status C		
C/ 07 SC 7.3.2.22.8 PAINE, RICHARD H	8 P 40	L 22	# 48	CI 07 S Paine, Richa	SC 7.3.2.22.8 ARD H	P 41	L 19	# 50
Comment Type ER LB103#36-Marshall:Fig	Comment Status A ure 85h should be shown as	a single row, not	Editor & CRgroup split across lines.	Comment Type LB103#38		Comment Status A twrong on this line		Editor & CRgroup
C1 C2 C3 C4 C5 C6 C	ed by the TG & Change Figu 7, and add text below the figu nittedFragmentCount." and r	ure with "C1 is the		SuggestedRen fix Response	nedy	Response Status C		
Response ACCEPT.	Response Status C			ACCEPT.				

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September 2007 IEEE P802.11k D8.0	Radio Resource Measurements comments 802-11-07/2422r
C/ 07 SC 7.3.2.22.8 P41 L 20 # 19 PAINE, RICHARD H	C/ 07 SC 7.3.2.22.8 P42 L2 # 53 PAINE, RICHARD H
Comment TypeEComment StatusALB103#07-Stephens:"dot11QosCountersIndex is set to 3." is in a different font.	Editor Comment Type ER Comment Status A Editor & CRgrou LB103#41-Marshall: Figure 85k should be shown as a single row, not split across lines.
SuggestedRemedy Set to default para font. Response Response Status ACCEPT IN PRINCIPLE. This comment is deemed editorial and delegated to the document editor for consideration in developing future drafts. Please note that the standards are edited professionally prior to publication.	SuggestedRemedy Make the change agreed by the TG &Change Figure 85k to 7 items on one row. Suggest C1 C2 C3 C4 C5 C6 C7, and add text below the figure with "C1 is the value of (or change invalue of) dot11STAStatisticsAPAverageAccessDelay." and e IEEE Response Response Status C ACCEPT. C C C
C/ 07 SC 7.3.2.22.8 P41 L 23 # 51 PAINE, RICHARD H	C/ 07 SC 7.3.2.22.9 P42 L26 # 120 Ecclesine, Peter
Comment Type ER Comment Status A Editor LB103#39-Marshall: Figure 85j should be shown as a single row, not split across SuggestedRemedy Make the change agreed by the TGChange Figure 85j to 13 items on one row. C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13, and add text below the figure the value of (or change invalue of)	lacks. Suggest SuggestedRemedy
Response Response Status C ACCEPT.	Response Response Status C ACCEPT.
C/ 07 SC 7.3.2.22.8 P41 L45 # 52 PAINE, RICHARD H	CI 07 SC 7.3.2.22.9 P42 L48 # 13 PAINE, RICHARD H
Comment Type TR Comment Status A LB103#40-Marshall: Normative statements don't belong in clause 7. SuggestedRemedy change "shall set" to "sets"	CRgroup Comment Type TR Comment Status A Ecclesin LB96#34-Stevens: I suspect no two manufacturers would interpret the structure of figure 85I in the same way. For example it shows three lattitude fields. The text clearly states that fields are little endian, but it does not state if the first of these t
Response Status C ACCEPT. change "shall set" to "sets"	SuggestedRemedy Redraw 85I using the conventions elsewhere in this document - i.e. show each field in a single box and number the bits at its left and right edges. (you can use figure 85m as an example). Do not split fields across multiple boxes. Response Response Status C ACCEPT IN PRINCIPLE. Similar Tgy comment from same commenter was resolved to the commenter's satisfaction with a bitfield drawing. A TGk version of that bitfield drawing in TGy D4.0 Figure 112z will be used, with the accompanying NOTE on how to represent an RFC-3825 example longitude.

September 2007		IEEE P80	2.11k D8.0 Radio Reso	ource Meas	802-11-07/2422r0			
C/ 07 SC 7.3.2.28 Chaplin, Clint F	P 46	L18	# 217	<i>CI 07</i> Trainin, Sc	SC 7.3.2.37 blomon	P 47	L 25	# 103
Comment Type ER Editor's instruction: "Ch follows:"	Comment Status A ange the third paragraph of 7	7.3.2.28 and form	Editor & CRgroup nat as formula as		efined format of Ne	Comment Status R eighbor Report element doe distinguish between 20MHz		
SuggestedRemedy "Change the third parage	graph of 7.3.2.28 and format	the formula as fo	ollows:"	S <i>uggested</i> Add cl		fication to the Neighbor Rep	port element	
Response ACCEPT.	Response Status C				CT. The TGk draft	Response Status C baseline does not include 11n specific changes to 11		
C/ 07 SC 7.3.2.36 Hart, Brian D	P 46	L 37	# 172			enter is encouraged to prov		
	Comment Status R lists which essentially compri		Hart ass and a channel list.	<i>CI 07</i> PAINE, RI	SC 7.3.2.37 CHARD H	P 48	L 30	# 55
SuggestedRemedy Commenter withdraws Response REJECT.	lements with their own (sub)e the comment <i>Response Status</i> C THDRAWN by the commente			Suggested Chang Response	#43-Marshall: Norn IRemedy ge "shall have" to "I	Comment Status A mative statements don't bel nave", and "shall be" to "are <i>Response Status</i> C I have" to "have", and "shall		CRgroup
C/ 07 SC 7.3.2.36 Trainin, Solomon	P 46	L 44	# 102	<i>CI</i> 07 PAINE, RI	SC 7.3.2.37 CHARD H	P48	L 44	# 56
identification. No way to SuggestedRemedy	Comment Status R P Channel Report element d distinguish between 20MHz	or 40MHz chan		Suggested	#44-Marshall: Nor	Comment Status A mative statements don't bel	ong in clause 7	
Response REJECT. The TGk dra would expect all of thes	tification to the AP Channel F Response Status C ft baseline does not include 7 ie 11n specific changes to 11 menter is encouraged to prov	I 1n. 11n baselin k to be included	in the 11n	Response ACCE	PT IN PRINCIPLE	Response Status C . P48L44: Delete "and shall eserve bits are fully defined		

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September 2007	IEEE P80	2.11k D8.0 Radio Reso	urce Measurem	nents com	ments		802-11-07/2422r0
C/ 07 SC 7.3.2.37 P48 Hart, Brian D	L 49	# 92	CI 07 SC PAINE, RICHAR	C 7.3.2.39 RD H	P 51	L15	# 58
Comment Type TR Comment Status A The TSF Offset is difficult to measure since it of is perfectly acceptable. It of the second sec	r allow the rate of cha	ange to be estimated:	SuggestedRem Add "us" for Response ACCEPT IN	Marshall: Ro edy r upper and I I PRINCIPLI	Comment Status A ws for "n" don't show the u lower bound on each Response Status C E. Assigned to Joe Kwak. rancisco meeting.		
ACCEPT IN PRINCIPLE. Requested TSF acc P98L22. No text change is needed.	uracy is provided in c	ause 11.11.2 on	CI 07 SC PAINE, RICHAF	C 7.3.2.39 RD H	P 51	L 15	# 57
C/ 07 SC 7.3.2.37 P49 Ecclesine, Peter	L 31	# 140	Comment Type LB103#45-N		Comment Status A	n" need to show th	<i>Kwak</i> he valid range for each.
Comment Type ER Comment Status R Why is 'Vendor Specific' coded 221 and not 25 like 7.3.2.26? SuggestedRemedy		·	used to inci	ines "and so date the me	on where" and delete the asured Access Delay". Ch ange on line 24 and 32. <i>Response Status</i> C		
Rename to VendorSpecificInfo in Table 43b an Sub-element ID to 254 per comment. Response Response Status C	d subsequent text pg	50 line 20. Renumber	ACCEPT IN		E. Assigned to Joe Kwak. rancisco meeting.	Text changes in (07/2165r0 approved in
REJECT. As noted on P50L20: the vendor spe Vendor Specific element described in 7.3.2.26. 221 as shown in Table 7-26 of the baseline.			C/ 07 SC Ecclesine, Peter	C 7.3.2.39 r	P 52	L 4	# 146
C/ 07 SC 7.3.2.38 P50 Ecclesine, Peter	L 35	# 145	Comment Type The 'shall' s 7.3.2.44 BS	tatements s	Comment Status A hould be moved to clause is Delay	11 and referred to	<i>Kwak</i> o here. Same for
Comment Type TR Comment Status A The term RCPI is not defined, and should have	a pointer to e.g. 17.3	<i>Kwak</i> 3.10.6	SuggestedRem Move meas clause 7.	•	d accuracy 'shall' statemer	nts to clause 11, a	and refer to them in
SuggestedRemedy Add text referring to where RCPI is defined			Response	A	Response Status C		Total and a second second
ResponseResponse StatusCACCEPT. P50L36 add new paragraph: "The Response field for certain PHYs in clauses 15, 17, and the specified for certain PHYs in clauses 15, 17, 17, 17, 17, 17, 17, 17, 17, 17, 17		RCPI value as		approved in .	quirement to a new subcla JUL07 by vote at San Frar		

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Submission

Richard Paine, Boeing

IEEE P802.11k D8.0 Radio Resource Measurements comments

CI 07	SC 7.3.2.	1 P5	2 L 5	0 # 231		CI 07	SC 7.3.2.4	B P 53	L	# 246
Hansen, C	J					Kwak, Josep	oh A			
Comment T	ype TR	Comment Status	Α		Kwak	Comment T	ype TR	Comment Status A		Kwak

Text is confusing. RSNI as defined by the equation appears that it should be an unsigned integer that takes on values of 0 to 254. Line 50 states RSNI has range -10 to 117 dB. This needs to be clarified.

SuggestedRemedy

Define RSNI unambiguously.

Response

Response Status C

ACCEPT IN PRINCIPLE. P52L50: change paragraph from "for RSNI in the range -10dB to -117dB, and where RCPIpower and ANPIpower indicate power domain values for RCPI and ANPI and not dB domain values." to "where RCPIpower and ANPIpower indicate power domain values for RCPI and ANPI and not dB domain values. RSNI in dB is scaled in units of 0.5dB to obtain 8 bit RSNI values which cover the range from -10 dB to +117 dB."

Description of 16 bit value for Available Admission Capacity is not detailed enough to indicate how the value is to be set by an AP. This seems to be based on the Available Admission Capacity defined in 7.3.2.28 but would seem to provide more detail concerning explicit admission control for prioritized UPs and ACs. Is there a relationship between the Available Admission Capacity defined in these two sections? It is not clear and unless this is fixed, an AP may set these fields to any arbitrary values and still be compliant with the standard. Without a clear definition, the admission capacity values are meaningless. In 7.3.2.28 the base standard says "The field is helpful for roaming non-AP STAs to select an AP that is likely to accept future admission control requests, but it does not represent a guarantee that the HC will admit these requests. This comparison of reported admission capacities will not be valid unless all AP implementation understand how to set these values and set them in a consistent way. This must be fixed.

SuggestedRemedy

Response

Fix this in 7.3.2.43 and in 7.3.2.28. It would be best to add a new clause to 11 to describe in detail the purpose of this IE and the way an AP is to set these fields. I suspect that the intent of this was to report on admission control "allocations" for future admission requests. In this case, the wording "remaining amount of medium time" is misleading. Such an admission control "allocation" need not be restricted to the remaining time (unused medium time) in any period. Such "allocations" may be independent of current medium load and may be arbitrarily set by policy in an AP. In any case this would imply a requirement that a STA shall never request admission for more medium time than is indicated to be "available". These requirements should be stated in a new clause 11.10.x. Note that K.2.2 provides an informative definition for medium time that can be used for these requirements.

ACCEPT IN PRINC	IPLE. See text changes in 07/2	2327r2.	
CI 07 SC 7.3.2.4 PAINE, RICHARD H	14 P 54	L 37	# 59
Comment Type TR LB103#47-Marshall:	Comment Status A bad cross reference		CRgroup
SuggestedRemedy Should be "Figure 1	12n"		
Response ACCEPT.	Response Status C		

Response Status C

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

 SORT ORDER:Clause, Subclause, page, line
 Comment ID # 59

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September 2007		IEEE P802.1	1k D8.0 Radio Reso	urce Measu	rements com	ments		802-11-07/2422r0
<i>Cl</i> 07 SC 7.3.2.44 PAINE, RICHARD H	P 54	L 48	# 60	<i>CI 07</i> Paine, Ric	SC 7.3.2.44 HARD H	P 55	L 50	# 63
Comment Type TR LB103#48-Marshall: ba	Comment Status A ad cross reference		CRgroup	Comment T LB103#		Comment Status A rmative statements don't be	long in clause 7	
SuggestedRemedy Should be "Figure 112	0"			SuggestedF change	Remedy "shall measure'	to "measures"		
Response ACCEPT.	Response Status C			Response ACCEP and ave		<i>Response Status</i> C E. P55L50 replace "shall me	asure and avera	age" with "measures
C/ 07 SC 7.3.2.44 PAINE, RICHARD H	P 55	L 11	# 62	<i>CI 07</i> PAINE, RIC	SC 7.3.2.44 HARD H	P 56	L 2	# 64
SuggestedRemedy	Comment Status A	ts of measurement	Kwak	Comment T LB103# SuggestedF	52-Marshall: No	Comment Status A	long in clause 7	
Add "us" for upper and Response ACCEPT IN PRINCIPL JUL07 by vote at San CI 07 SC 7.3.2.44	Response Status C .E. Assigned to Joe Kwak. To	ext changes in 07/2	165r0 approved in # 61	Response ACCEP subclau		<i>Response Status</i> C E. Assigned to Joe Kwak to Text changes in 07/2165r0		
PAINE, RICHARD H				C/ 07	SC 7.3.2.44	P 56	L 6	# 20
SuggestedRemedy Delete the lines "and s used to incidate the mu "2<=n<=14". Similar ch Response	Comment Status A ultiple lines here for entry "n" o on where" and delete the lir easured Access Delay". Char hange on line 20 and 28. <i>Response Status</i> C LE. Assigned to Joe Kwak. To Francisco meeting.	e "where n is the in ge "n:" at start of lir	nteger value (step) ne 15 to	it would report v SuggestedF Referer Response ACCEP	ype T 08-Stephens: I n't harm to state vith a smidgeon Remedy nce the AC_* lab	les in figure 112o. <i>Response Status</i> C add to field names the comr	s that define an	AC to the fields of this

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Septem	ber 2007		IEEE P80	2.11k D8.0 Radio Res	ource Measur	ements co	mments
C/ 07 Myles, And	SC 7.3.22.10 drew F	P 45	L 15	# 208	C/ 07 Myles, Andre	SC 7.4.6.3 ew F	P
	ext mentions the "p	Comment Status A point at which the first or onl what "ready for transmissior		<i>Kwak</i> dy for transmission"		, page numbe	Comment Status ring is incorrect
Suggested	dRemedy				SuggestedR	emedy	
Clarify	/ meaning of "read	ly for transmission"			Response		Response Status
Response		Response Status C			•	IN PRINCIP	LE. This comment is
	EPT IN PRINCIPLE VCA access),".	E. P45L15: replace "transm	ission," with "trar	nsmission (i.e., begins			onsideration in developrofessionally prior to
C/ 07 Myles, And	SC 7.3.22.10 drew F	P 45	L 28	# 209	<i>Cl 07</i> O'Hara, Rob	SC 7.4.6.5 ert	Pt
Comment The se		Comment Status A 8 and line 31 are not subsci	ripted	Editor & CRgroup	Comment Ty Clause 7		Comment Status
Suggested Fix it	dRemedy				SuggestedR replace	•	ly be" with "can be"
Response	9	Response Status C			Response		Response Status
chang	je "Range" to "Rar	E. There are many small iter age field value". P45L28 ch	ange "B0 duratio	n" to "Bin 0 range".	ACCEP	Г.	•
delete		script0)" to "B(subscript0) = 31 change "Bi duration" to "			<i>CI</i> 07 O'Hara, Rob	SC 7.4.6.5 ert	P
Cl 07 Ecclesine,	SC 7.4.6 , Peter	P 56	L 20	# 122	Comment Ty This field necessa	, d does not nee	Comment Status ed to include the entit
Comment	Type ER	Comment Status R		Editor & CRgroup	SuggestedR		
	Action Value fields measurement.	s are in the base standard, a	and the same ter	m should be used for	00	the descriptio	n to include only the
Suggestee	dRemedy				Response		Response Status
		les to Action Value field valu alue after Category	ues throughout 7	.4.6, and change			the entire element as to extend the sema
Response	9	Response Status C					
Spect "Actio spec r	rumManagement on field". Changing	ter points out an inconsister use term "Action Value field "Action field" to "Action Va the meaning. TGk will con he baseline.	". 10 action les i lue field" does no	n QOS use term ot add any value to			

Cl 07 Myles, And	SC 7.4.6.3 rew F	P 57	L	# 211
Comment T The To	<i>Type</i> E C page number	Comment Status A ing is incorrect		Edito
Suggested	Remedy			
docum	ent editor for co	Response Status C E. This comment is deemed nsideration in developing futu rofessionally prior to publicat	ure drafts. Pleas	
<i>Cl 07</i> O'Hara, Ro	SC 7.4.6.5 bert	P 59	L 35	# 190
Comment T Clause		Comment Status A ce for normative language in	the description of	Kwa of the frame content
Suggested	-	/ be" with "can be"		
Response ACCEF	PT.	Response Status C		
<i>CI</i> 07 O'Hara, Ro	SC 7.4.6.5 bert	P 59	L 35	# 191
Comment T This fie necess	eld does not nee	Comment Status R d to include the entire SSID	element. Only th	Ha e value of the SSID is
	2	n to include only the value of	the SSID, elimin	ating the SSID element
		Response Status C the entire element as a sub-e to extend the semantics of t		

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Submission

September 2007		IEEE P80	2.11k D8.0 Radio Reso	ource Measur	ements comm	ents		802-11-07/2422r0
C/ 07 SC 7.4.6.6 O'Hara, Robert	P60	L 10	# 192	<i>Cl</i> 09 Ecclesine, Pe	SC 9.8.2.1 eter	P 60	L 25	# 147
Comment Type TR Clause 7 is not the pla SuggestedRemedy	Comment Status A ice for normative language in	the description c	<i>Kwak</i> of the frame content	Measure	802.11k changing ment?	Comment Status R g this clause if the FH PH	Y is not otherwis	<i>Kwak</i> e modified in Radio
replace "shall be" with Response	"is" Response Status C			SuggestedRe Delete cl		d submit a change reques	st to REV-mb.	
ACCEPT IN PRINCIP "are".	LE. PROPOSED ACCEPTED	IN PRINCIPLE.	Change "shall be" to		. TGk is not chan	Response Status U Iging the specification for Ment for FH PHYs which v		
C/ 07 SC 7.4.6.6 O'Hara, Robert	P 60	L 7	# 193	now mov	ved here. See rela	ated comment CID#121.		
Comment Type TR Clause 7 is not the pla	Comment Status A accession of the status A and	the description c	Kwak	C/ 10 O'Hara, Robe		P68	L1	# <u>194</u>
SuggestedRemedy replace "shall be" with	"is"			Ũ	e numbers do not	Comment Status A reference any valid figure	e in 802.11-2007	Editor & CRgroup
Response ACCEPT.	Response Status C				ne figure numbers			
<i>Cl</i> 09 <i>SC</i> 9 Hansen, C J	P12	L 50	# 227		. The baseline for	Response Status C this D8.0 document is 80 d will have figure numbers		
Comment Type TR	Comment Status A	on	Hart	<i>CI</i> 10 Hansen, C J	SC 10	P 85	L 35	# 232
SuggestedRemedy Remove Response ACCEPT IN PRINCIP	Response Status C LE. Editor to implement 07/05	35r5		made. Ti and the t Impleme measure SuggestedRe Add new Response REJECT	, e no guidlines or li his is unacceptabl houghput availabl ntations need guid ments. emedy text describing ty <i>F</i> . Rate, range, tra	Comment Status R imits defined in this section e. All measurements will e to stations incorporating dance from the IEEE as the pical scenarios for how m Response Status C nsmit power, regulatory co res. The requirements a	have an effect o g these measure o how often to m neasurements ar classes, location,	n the network capacity ements. hake these re to be used. , are all delimiters on

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September	2007		IEEE P8	02.11k D8.0 Radio Reso	ource Meas	surements co	mments			802-11-07/2422r0
CI 10 S	SC 10.3.12 Ard H	P 69	L 28	# 67	C/ 10 Ecclesine	SC 10.3.12	1.2	P 70	L 18	# 125
Comment Type LB103#55		Comment Status	-	Editor & CRgroup	<i>Comment</i> Why i	51		ent Status A cription ALL CAPS	here and 10.3.1	Editor 2.3.2?
68 line 35,	change agreed add "Change		as follows" at page 69 3.14.3.2.	.1.2 as follows" at page line 1, and similar	Response ACCE	w IEEE Style Gu e EPT IN PRINCIF	Respon LE. This co	se Status C omment is deemed		legated to the se note that the IEEE
ACCEPT.					stand	ards are edited	professiona	lly prior to publicat	tion.	
CI 10 S	SC 10.3.12.1.2 Ard H	P 69	L 36	# 68	<i>CI</i> 10 PAINE, R	SC 10.3.12 ICHARD H	.3.2	P 70	L 32	# 69
	-Marshall: Forn s" and "Measu <i>medy</i>		nt with original docum new text and should l	Editor & CRgroup ent. Also, "Number of be underlined.	Repe [.] Suggeste	3#57-Marshall: I titions" and "Mea <i>dRemedy</i> comment	Formatting is asurement (ent Status A s inconsistent with Category" is new to see Status C		Editor & CRgroup ent. Also, "Number of e underlined.
C/ 10 S Ecclesine, Pet	SC 10.3.12.1.2 er	P69	L 44	# 124	Cl 10 Ecclesine	SC 10.3.2.2	.2	P61	L16	# 123
Comment Type Three inse		Comment Status	A here and 10.3.12.3.2	Editor	Comment Claus	51		<i>ent Status</i> A le fields, not Valid	Range.	Editor
SuggestedRer Underline		RequestSet, etc.			Suggeste Chan		ange in all t	tables in Clause 10	0.	
Response ACCEPT I		Response Status (C eemed editorial and d	elegated to the	Response ACCE			se Status C omment is deemed	d editorial and de	legated to the
document	editor for cons		ng future drafts. Plea	se note that the IEEE	docur	ment editor for c	onsideratior		ure drafts. Pleas	se note that the IEEE

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Richard Paine, Boeing

IEEE P802.11k D8.0 Radio Resource Measurements comments

C/ 10 SC 1 Ecclesine, Peter	0.3.2.2.2	P 61	L 22	# 148	<i>Cl</i> 10 Kwak, Jos		10.3.32.2.2	P 79	L	# 247
Is the amendm dot11RadioMe and 11.10. If so	asurement etting dot1 nainCapabi	Comment Status A mplete if dot11MultiDoma Enabled is true? I don't th 1RadioMeasurementEnab lityEnabled true, then this	ink so - see my c led true also sets	omments on 7.3.1.4	The L incom reque and F repor	ink Mea plete. T st/report SNI for s on the	he link mea t frames. Th both the rec measured	Comment Status A onfirm primitive reports surement is based on the resulting confirm prim quest frame and the rep values of the request fr	he exchange of linl itive should contain ort frame. The prin	k measurement n the measured RCPI
dot11RadioMe remove this ch	asurement ange.	MultiDomainCapabilityEna Enabled is true is a norma			primit	he RCPI ive.	and RSNI	measured values for the	e Link Measureme	nt Report frame to the
	RINCIPLE.	Response Status C Doc 07/2314r0				EPT IN F		Response Status C Modify text and table t report.	o include RCPI.red	quest, RCPI.report,
PAINE, RICHARD Comment Type LB90#06-Engv description sta present in the Response fram	TR ver: In the tes that the received P ne format. d ProbeRe	P61 Comment Status A scan.confirm primitive par e RCPI informaiton is deriv robe Response", but there I suspect the intent was to sponse frame itself rather	ved from fields in e is no RCPI field o provide the RCP	the "RCPI element defined in the Probe Measurement value	Comment LB10 Suggeste	ICHARD Type 3#58-Ma dRemed ove unde	ER arshall: Edito ly erlining unde	P79 Comment Status A or instruction is "insert", er the comma Response Status C	L 39 so no underlining	# 7 <u>0</u> Editor & CRgrou _l needed
"This paramete SCAN.confirm Response. Pre to "This param	er shall be primitive v esent only eter shall t primitive v	the RCPI field to the Prol present within a BSSDesc when an RCPI element was when the MIB attribute dot be present within a BSSDe when when the MIB attribute	cription returned in s present in the re 11RadioMeasure escription returned	n an MLME- eceived Probe mentEnabled is true." d in an MLME-		SC ICHARD <i>Type</i> 3#53-Ma	ER arshall: Edite	P 62 Comment Status A or instructions are too g	L 29 eneral.	# 65 Editor & CRgroup
ACCEPT. Dele information ele request information	ete all rows ments. Al ation elem	Response Status C from the BSSDescription so modify MLME-SCAN.re ents. Modify section 11.1 he SCAN.request/.confirm	equest primitive to .3 to indicate use	add a new row for	61 lin	the cha e 23, ad ges to 10 e	nge agreed d "Change).3.6.4.2, 10	by the TG & add "Char able in 10.3.6.3.2 as fo 0.3.7.3.2, and 10.3.7.4.2 <i>Response Status</i> C	llows" at page 61 li	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER:Clause, Subclause, page, line

Comment ID # 65

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IEEE P802.11k D8.0 Radio Resource Measurements comments

Kwak

Kwak



Comment Type TR Comment Status A

LB103#54-Marshall: Vendor Specific was deleted from the table

SuggestedRemedy

Would be acceptable to delete most of the table in 10.3.6.3.2, keeping only the new rows, and change the editing instruction to "Insert". But if the editing instruction is kept as "Change", then include the Vendor Specific line in the table as you did all the other existing lines. Similar change needed to 10.3.6.4.2, 10.3.7.3.2, 10.3.7.4.2, 10.3.12.1.2, 10.3.12.3.2, 10.3.14.1.2. 10.3.14.3.2.

Response

Response Status C ACCEPT. Assigned to Joe Kwak. Text changes in 07/2165r0 approved in JUL07 by vote at

San Francisco meeting.

Comment Type TR Comment Status A

> LB96#04-Engwer: Clauses 7.2.3.5 and 7.2.3.7 show the addition of the RCPI and RSNI to the information included in the association response and reassociation response frames respectively. Presumbly these are the RCPI and RSNI measured on the corresponding association request and reassociation request frames received by the AP, but this is only described in clause 10 (10.3.6.4.2 and 10.3.7.4.2) whereas I would expect a description in cluase 11 of how these values are actually used, but I can't find where this is described in clause 11. Further, clauses 10.3.6.4.2 and 10.3.7.4.2 expose the RCPI and RSNI values from the AP STA's MLME to the AP STA's SME, presumably so that the AP SME can include those factors in it's decision to grant association/ reassociation or not. It makes sense that the values are exposed as part of the associate/ reaasociate .indication primitives, but the values are also returned to the MLME as part of the .response primitive. This in turn allows inclusion of the RCPI and RSNI values in the association response and reassociation response frames respectively. But again the purpose in doing so is never revealed. Is the information intended for the associating STA's MLME or SME? If the answer is the MLME then a description of how this MLME utilizes this information is needed in clause 11. If the intended receipient of the RCPI and RSNI values is the associating STA's SME then the RCPI and RSNI values should also be included in the associate and reassociate .confirm primitives.

SuggestedRemedy

Clarify the purpose of including the RCPI and RSNI values in the association and reassociation response frames and align that with the appropriate changes to the associate and reassociate .response and .confirm primitives as needed.

Suggestion: add text to clause 11 to define and describe the purpose and specific instances under which this information is used, and leave clause 10 unchanged in this regard.

Or, remove the RCPI and RSNI values from the association response frames since no description is provided for how it is to be used.

Or, add the RCPI and RSNI values to the association/ reassociation .confirm primitives which will push the corresponding responsibility for intrepreting and acting upon these values to the SME (on both ends of the link).

Response

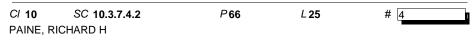
Response Status C

ACCEPT, Add RSNI and RCPI values to the association/reassociation .confirm primitives on both ends of the link. This will push the corresponding responsibility for interpreting and acting on these values into the SME. At the STA, the .confirm primitive should contain RCPI and RSNI values for received frames at both ends of the association link. Assigned to Joe Kwak for text for approval. Text changes in 07/2165r0 approved in JUL07 by vote at San Francisco meeting.

Comment ID # 3

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Kwak



Comment Type TR Comment Status A

LB96#05-Engwer: Clauses 7.2.3.5 and 7.2.3.7 show the addition of the RCPI and RSNI to the information included in the association response and reassociation response frames respectively. Presumbly these are the RCPI and RSNI measured on the corresponding association request and reassociation request frames received by the AP, but this is only described in clause 10 (10.3.6.4.2 and 10.3.7.4.2) whereas I would expect a description in cluase 11 of how these values are actually used, but I can't find where this is described in clause 11. Further, clauses 10.3.6.4.2 and 10.3.7.4.2 expose the RCPI and RSNI values from the AP STA's MLME to the AP STA's SME, presumably so that the AP SME can include those factors in it's decision to grant association/ reassociation or not. It makes sense that the values are exposed as part of the associate/ reaasociate .indication primitives, but the values are also returned to the MLME as part of the .response primitive. This in turn allows inclusion of the RCPI and RSNI values in the association response and reassociation response frames respectively. But again the purpose in doing so is never revealed. Is the information intended for the associating STA's MLME or SME? If the answer is the MLME then a description of how this MLME utilizes this information is needed in clause 11. If the intended receipient of the RCPI and RSNI values is the associating STA's SME then the RCPI and RSNI values should also be included in the associate and reassociate .confirm primitives.

SuggestedRemedy

Clarify the purpose of including the RCPI and RSNI values in the association and reassociation response frames and align that with the appropriate changes to the associate and reassociate .response and .confirm primitives as needed.

Suggestion: add text to clause 11 to define and describe the purpose and specific instances under which this information is used, and leave clause 10 unchanged in this regard.

Or, remove the RCPI and RSNI values from the association response frames since no description is provided for how it is to be used.

Or, add the RCPI and RSNI values to the association/ reassociation .confirm primitives which will push the corresponding responsibility for intrepreting and acting upon these values to the SME (on both ends of the link).

Response

Response Status C

ACCEPT. Add RSNI and RCPI values to the association/reassociation .confirm primitives on both ends of the link. This will push the corresponding responsibility for interpreting and acting on these values into the SME. At the STA, the .confirm primitive should contain RCPI and RSNI values for received frames at both ends of the association link. Assigned to Joe Kwak for text for approval. Text changes in 07/2165r0 approved in JUL07 by vote at San Francisco meeting.

C/ 11	SC 11	.1	P 99	Ð	L	# 241
Palm, Ste	phen R					
Comment	Туре .	TR Con	nment Status	Α		Ganesh
imple	ment all of		s. Each of the			nplementations will ures/reports should be
Suggeste	dRemedy					
negot	iated. For		nvisioning an	AP with limi	ted res	eperately indicated and/or sources (e.g. memory) where
Response	9	Resp	onse Status	С		

ACCEPT IN PRINCIPLE. See resolution in CID#12.

<i>Cl</i> 11 O'Hara, R		P 82	L 41	# 195
	51	Comment Status R urement Pilot has not been p urposes.	roven. It consum	<i>Hart</i> es bandwidth that is
Suggestee delete		rting measurement pilots		
		Response Status C nt Pilots may be useful in the during roaming.	DFS bands befo	pre association, and to
<i>Cl</i> 11 O'Hara, R	SC 11.1.3.2.	1 P83	L 15	# 197
Comment	Type TR	Comment Status A		Ganesh

The duplication of information elements is not necessary, as they can already be found in the probe response.

SuggestedRemedy

Delete the paragraph specifying the duplication of information elements in the probe response

Response Response Status C

ACCEPT IN PRINCIPLE. Move all normative paragraphs from 7.2.3.9 to 11.1.3 (Move P11, Lines 19-34 to 11.1.3). Add text to indicate that if the Requested Elements IE in the corresponding Probe Request includes elements that are part of the Probe Response (listed in Table-15), the Probe Response will not duplicate them. See Doc 07/2314r0.

Comment ID # 197

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER:Clause, Subclause, page, line

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September	2007		IEEE P80	2.11k D8.0 Radio Reso	urce Meas	surements co	omments			802-11-07/2422r0
C/ 11 S Ecclesine, Pete	SC 11.1.3.2.1 er	P83	L 17	# 126	Cl 11 Ecclesine	SC 11.10.7	,	P 89	L 43	# 128
dot11Radi SuggestedRen Qualify the	ted paragraph oMeasureme <i>nedy</i> e paragraph lil	Comment Status A should be restricted to STA htEnabled set to true, as leg the next paragraph is qua htEnabled is true,".	acy STAs have	<i>Ganesh</i> different behavior.	Suggeste Corre Response	e is no 11.6.6 in d <i>Remedy</i> ect the reference	the base states to DFS. Response	ent Status A ndard nor this arr se Status C		Editor
Response ACCEPT I		Response Status C E. Doc 07/2314r0			docur	ment editor for a	consideration	mment is deemed in developing fut ly prior to publicat	ure drafts. Pleas	legated to the se note that the IEEE
C/ 11 S O'Hara, Robert	SC 11.1.3.2.1 t	P83	L 18	# 196	<i>Cl</i> 11 Hart, Bria	SC 11.10.8 n D	.1	P 91	L 39	# 91
document	nedy "that" N PRINCIPLI editor for con	Comment Status A Response Status C E. This comment is deemed sideration in developing futu ofessionally prior to publicati	ire drafts. Pleas		packe Suggeste Speci pakce Response ACCE	and elsewhere et length is unde <i>dRemedy</i> ify whether to tr ets; elsewhere i e EPT IN PRINCI	in 11k, behave efined. uncate to split t can be elem <i>Respons</i> PLE. Add ne	it over multiple el ients - e.g. frame se <i>Status</i> C w sentence at P8	ements or packed report) 38L30 "A single M	Hart max element length or ts. (Here it would be leasurement Request . The measurement
C/ 11 S PAINE, RICHA	SC 11.10 ARD H	P 85	L 35	# 12		t data may be r surement report		multiple measur	ement report eler	ments in multiple
implement procedures SuggestedRen	Palm:There an ations will imp s/reports shown nedy	Comment Status A re too many varied procedure blement all of the procedure ald be seperately indicated a so that each procedure/repo	s. Each of the su and negotiated	pported	way to	f <i>Type</i> T use the AP Cha o specify a sub	Comme	P92 ent Status A can contain > eig innels, by band o		# <u>129</u> <i>Hart</i> band, there should be dwidth.
negotiated Response ACCEPT I	l	Response Status C E. Assigned to Ganesh. Add			Repo GHz, <i>Response</i>	a way to restrict rt - e.g. RC, Ler outdoor 5 GHz	ngth, list of ch and indoor 5 <i>Respons</i>		be able to have up e lists.	nnels in a Channel oper 5 GHz and lower 5

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IEEE P802.11k D8.0 Radio Resource Measurements comments

measuremei	TR Comme				Chaplin, C	Clint F			
	t is overly narrow whe nt request. As a data d equal to 0 (all chann	point, note that wi			32." w	age RCPI = (Las	leoes this formula def	I) / N) + (Current fr	<i>Kwak</i> rame RCPI / N), where N = en the variable has a fixed
SuggestedReme	edy				Suggeste	dRemedy			
Delete "A Be	eacon measurement i	equest & not allov	ved)		"Avera	age RCPI = (Las	t Average RCPI * (31)	/ 32) + (Current fr	ame RCPI /32)."
Response ACCEPT IN	Response PRINCIPLE. Editor to	se Status C p implement 07/23	02r4 Sect4		Response ACCE		Response Status	С	
C/ 11 SC Hart, Brian D	2 11.10.8.1	P 92	L 8	# 89	C/ 11 Chaplin, C	SC 11.10.8. Clint F	6 <i>P</i> 9	5 L7	# 219
Comment Type	TR Comme	ent Status A		Hart	Comment	Type ER	Comment Status	Α	Editor & CRgroup
BSSID send implies the la SuggestedReme Delete "for th Response	he specific BSSID" Respon	Report, and the BS he former. se Status C	SID to report on		read t Longii said. <i>Suggester</i> "whict	his, I assumed t tude, and also to dRemedy	hat the "34-, 34-, or 30 Altitude. It took subst)" could be applied equent readings to	-, 34-, or 30-bits" When I first I to Latitude, and also to figure out what was being a maximum resolution of 34-,
ACCEPT IN	PRINCIPLE. Editor to	o implement 07/23	02r4 Sect5		Response	9	Response Status	С	
C/ 11 SC Chaplin, Clint F	2 11.10.8.1	P 92	L 8	# 213	ACCE	EPT.			
shall only sp use of the w Channel Rep channels sp on those cha SuggestedReme	owing text "A Beacon becify a specific BSSII ildcard BSSID when t port. This prevents the ecified in the AP char annels.	D (wildcard BSSID he Beacon Report e simple request o anel report and rep	not allowed)." p t specifies the ch f an AP asking t	laces a restriction on					
Response	Respon	se Status C							

ACCEPT IN PRINCIPLE. Editor to implement 07/2302r4 Sect4

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

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IEEE P802.11k D8.0 Radio Resource Measurements comments

C/ 11	SC 11	.10-11.13	j.	P 85	L	# 144	1	C/ 11	SC	11.11.2		P 98	L 17	# 220
cclesine,	Peter							Chaplin, (Clint F					
omment	Type 1	TR	Comment St	tatus A			Ganesh	Commen	t Type	TR	Comment Si	tatus A		CRg
no sta higher uggested Create be true dot111 dot115 11.12 Pesponse	tements a level than <i>Remedy</i> a 11.10 Ra a, and whe Regulatory <i>A</i> ultiDoma Spectrum and 11.13	adio Meas en dot11F yClassesF ainCapabi Managem 3 as 11.10	ted MIB entitie bocedure or wit surement, add RadioMeasure Required is tru ilityEnabled is	es are made. thin each prod d text requiring ementEnabled ue, dot11Spe s true. Determ should be true [1.10.3, 11.10 atus C	g dot11RadioMe d is true, then ctrumManagem nine when e. Renumber ex	nts should be m easurementEn nentImplemente	nade at a abled to ed is true,	receiv unkno rema in the Suggeste Repla sub-e rema Spec and c	ving a n own OU ining Ve STA w edRemen ace "sha element ining su ific sub- continue e	eighbor re II shall igno endor Speci ill be proce dy all" with "sh identifier s b-element element w to proces	port element co port this Vendor cific sub-element essing this report hould ": "A STA in hould ignore the s. A STA receive ith an unknown s any remaining Response St	ontaining a Ve Specific sub- nts." "Shall?" rt? receiving a ni e unknown s ring a neighb oUI should g Vendor Spe fatus C	endor Specific su element and con Isn't that a bit str eighbor report ele ub-element and c or report element ignore this Vendo cific sub-element	
														ndor specific sub-
2/ 11 Iyles, And	SC 11. Irew F	.11.1		P 98	L3	# 210)	element and continue" to "should ignore this vendor specific sub-element and sha continue".					ment and shall	
omment	Type 1	TR	Comment St	tatus A			Ganesh	C/ 11	SC	11.12		P 98	L 31	# 127
					s a neighbour re		- (1)	Ecclesine	e, Peter					
					ociated STA, alt			Commen		TR	Comment Si			ŀ
		h the text											power or EIRP fo	
uggestec	lRemedy							additional text is required. "The value of the Max Transmit Power field of the Link Measurement Request shall be less than or equal to the Transmit Power Limit for the operating channel." SuggestedRemedy						
			ed to remove	"associated"	' from 11.11.1, a	and rely on 11.	3 to limit							
	associate		D											
esponse	יסס ואו דס		Response Sta		1.2 daga nating		romont	Per c	ommen	t				
ACCEPT IN PRINCIPLE. Doc 07/2314r0. Clause 11.3 does not permit the measurement request to be transmitted to the AP that the STA is not associated with.							irement	Response	e		Response St	atus C		
reques								E. The issue rational termit Power. N			ected in the clause 7			

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER:Clause, Subclause, page, line

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IEEE P802.11k D8.0 Radio Resource Measurements comments

C/ 11 Myles, And		11.13	P 98	L	# 205	0	C/ 11 Ecclesine		11.13	P 98	L 35	# 224
Comment		TR	Comment Status R			Hart	Comment		TR	Comment Status A		Ha
* Rapio * Provi	dly diso de nei	cover BSS ghbour me	use of MPs to: via passive scanning easurements via passive sca	nning			radar/	shared	bands or	eading, in that it does not des the 2.4 GHz bands with virtua e in the BSS than Beacon fra	al APs. It also n	eglects to say that MPs
	ver, 07/	SNR info 0535r2 ex	rmation amines various use cases fo	r MPs and cond	cludes they have li	mited		ext caut	tioning the	at use of MPs may affect BSS		
Suggested	IReme	dy							Ps, and r .g. 07/21	evise 5.2.7.2 accordingly, or r	emove measure	ement pilots (as
Remov	ve MPs	3.					Response		g. 01/21	Response Status C		
Response			Response Status C						PRINCIPI	LE. Editor to implement 07/05	35r5	
REJEC	CT. Me	asuremer	t Pilots may be useful in the during roaming.	DFS bands bef	ore association, ar	nd to	C/ 11		11.13	P98	L 36	# 158
							Ecclesine		11.15	7 30	200	# [130
C/ 11		11.13	P 98	L	# 162	1	Comment		TR	Comment Status A		Ha
Ecclesine,	Peter									a Measurement Pilot is not sig	nificantly differe	
Comment STAs o		TR tive scan i	Comment Status R n the 2.45 GHz band and the	lower 5 GHz b	and, and receive	Hart	Frame	ə (.11k	MP is 52-	Hockets, Beacon frame in 5 G amount of interference to oth	Hz band is 72+	octets), so both will
Neight bands.		ports from	11k APs, to quickly learn the	BSS situation	in many neighborh	nood	Suggeste				,	
Suggested		dy								t they cause less than three ti n frames to other nearby STAs		
Remov	ve mea	surement	pilots (as specified in e.g. 07	7/2158r1).			specif	ied in e	.g. 07/21	58r1).		
Response			Response Status U				Response)		Response Status C		
REJEC quickly	CT. Me / harve	asuremer st RSSIs	t Pilots may be useful in the during roaming.	DFS bands bef	ore association, ar	nd to	inform	native n	ote in sec	LE. Editor to implement 07/05 ction 11.13.1, containing a simested Remedy		
<i>Cl</i> 11 O'Hara, Ro		11.13	P 98	L 33	# 200		ριορο	seu in i	ne Sugge	steu Kemeuy		
	ility of	GR the Measu or other pu	Comment Status R irement Pilot has not been pr	oven. It consun	nes bandwidth that	<i>Hart</i> t is						
Suggested delete	IReme	dy .	, poool.									
Response			Response Status C									
			t Pilots may be useful in the during roaming.	DFS bands bef	ore association, ar	nd to						

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER:Clause, Subclause, page, line

Comment ID # 158

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Hart

C/ 11	SC 11.13	P 98	L 37	# 222
Ecclesin	e, Peter			

Comment Type TR Comment Status R

Description generalizes the differences between Beacon frames and MP frames, which are substantial at lowest basic rates. For ten Beacon frames per second and nine MP frames per beacon frame, I calculate in 2.4 GHz band MPs take > 54 msec per second (vs 7 msec for Beacons alone), and in any band with 5 MHz channel bandwidth, MPs take > 31 msec per second (vs 4 msec for Beacons alone), regardless of traffic. It would be useful to include a table in MP generation describing time per second used by Beacon frames and MPs for a channel bandwidth and preamble.

SuggestedRemedy

Add table with Beacon frame and MP frame time per second per PHY/preamble/channel bandwidth combination, or remove measurement pilots (as specified in e.g. 07/2158r1).

Response Response Status C

REJECT. Editor shall implement 07/0535r5 which contains many cautionary notes.

C/ 11	SC 11.13	P 98	L 37	# 223
Ecclesine	, Peter			
Commen	t Type TR	Comment Status R		Hart

Comment Type TR Comment Status R

Description generalizes the differences between Beacon frames and MP frames, which are substantial at lowest basic rates. For ten Beacon frames per second and nine MP frames per beacon frame, I calculate in 2.4 GHz band MPs take > 54 msec per second, and in any band with 5 MHz channel bandwidth, MPs take > 31 msec per second, regardless of traffic. It would be useful to include a table in MP generation describing time per second used by MPs for a channel bandwidth and preamble.

SuggestedRemedy

Add table with MP time per second per PHY/preamble/channel bandwidth combination, or remove measurement pilots (as specified in e.g. 07/2158r1).

Response Response Status C

REJECT. Editor shall implement 07/0535r5 which contains many cautionary notes.

C/ 11	SC 11.13	P 98	L 40	# 157
Ecclesine	e, Peter			

Comment Type TR Comment Status R

To my understanding, Measurement Pilots permit a STA to make rapid discovery of a BSS, yet it is incompletely specified for any band except the 2.45 GHz band, and it is not specified for the FH PHY.

SuagestedRemedv

Specify MP frame formats for all bands and the FH PHY, or remove measurement pilots (as specified in e.g. 07/2158r1)

Response Response Status U

REJECT. The MAC frame formats are available to all PHYs in all bands.

C/ 11	SC 11.13	P 98	L 41	# 156
Ecclesine	e. Peter			

Comment Type TR

Comment Status R

Hart

Hart

To my understanding. Measurement Pilots permit a STA to make faster collection of neighbor measurements than by passive scanning for Beacon frames. What request can an AP make to receive a report of such neighbor measurements, as all other measurements are request/response?

SuggestedRemedy

Provide a mechanism to request reports of existing neighbor measurements, not new measurements, or remove measurement pilots (as specified in e.g. 07/2158r1)

Response Response Status C

REJECT. Mechanisms to request reports of existing neighbor measurements are available via a Beacon Request of Measurement Mode = Beacon Table. See section 7.3.2.21.6 and 7.3.2.22.6.

C/ 11	SC 11.13	P 99	L 1	# 206
Myles A	ndrew F			

iviyies, Andrew I

Comment Status A Comment Type TR Hart The text states on line 1 that the MP shall be scheduled as the next frame for transmission.

It also states on line 4 that it should use a particular AC.

However, these two requirements are contradictory because putting a frame at the head of an AC's queue does not mean that frame is next to be transmitted

SuggestedRemedy

Decide on what is really required and document it (or remove MP's from draft altogether)

Response Response Status C

ACCEPT IN PRINCIPLE. Editor to implement 07/0535r5.

September 2007		IEEE P80	02.11k D8.0 Radio	Reso	urce Measu	rements co	omments			802-11-07/2422r0
<i>Cl</i> 11 <i>SC</i> 11.13.1 Hart, Brian D	P 98	L 41	# 107		C/ 11 Myles, Andr	SC 11.13.1 ew F	l	P 98	L 47	# 207
Comment Type T Caution needs to be a available	Comment Status A dvised in seeking these benefi	ts - i.e. MPs m		lart		t specified that	at the MP shou		e lowest basic rat o send the MP at	
SuggestedRemedy Add an informative not	te that under some circumstan	ces MPs may i	not be available.		SuggestedF Allow M	-	t at a higher ba	sic rate (or remo	ove MPs altogeth	ner)
Response ACCEPT IN PRINCIPI	Response Status C LE. Editor to implement 07/053	35r5.			Response ACCEP	T IN PRINCI	,	Status C mplement 07/05	535r5.	
C/ 11 SC 11.13.1 Ecclesine, Peter	P 98	L 47	# 160	ľ	C/ 11 Hart, Brian [SC 11.13.1	l	P 98	L 47	# 106
band at the lowest bas monitor for primary us SuggestedRemedy The rules should be ch	nanged to allow MPs to be sen	gnificant reduct t at the same c	tion in time available to lata rates as Beacon)	SuggestedF Allow ot Response	basic rate co Remedy her rates	Response	status C		
Response	asurement pilots (as specified <i>Response Status</i> U LE. Editor to implement 07/053	J.	3r1).		ACCEP C/ 11 Ecclesine, F	SC 11.13.1		mplement 07/05	535r5. 	# 166
C/ 11 SC 11.13.1 Ecclesine, Peter	P 98	L 47	# 159		Comment T			<i>t Status</i> R Measurement P	liot Interval equa	Hart Ils zero" is inexact.
band at the lowest bas	Comment Status A a Measurement Pilot using 5 M bic rate (1.5 Mbps) causes a sig ers (4msec per sec). This sect od in a shared band.	gnificant reduct	ndwidth in a shared tion in time available to	lart D		to "local TSI	neasurement p		asurement Pilot Ir ed in e.g. 07/2158	nterval has a remainder 3r1).
SuggestedRemedy	cts of using MPs in a radar ba	nd, or remove i	measurement pilots (as	S			er describes a r mainder" by de		derstanding of th	e modulo operator,
Response	Response Status U									

ACCEPT IN PRINCIPLE. Editor to implement 07/0535r5.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER:Clause, Subclause, page, line

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Comment ID # 166

IEEE P802.11k D8.0 Radio Resource Measurements comments

C/ 11 SC 11.13.1 Ecclesine, Peter	P 99	L 7	# 161	C/ 11 Lubar, Da	SC 11.13.2 niel M	P 99	L 22	# 116
Comment Type TR The MP generation rules SuggestedRemedy The rules should be cha or remove measuremen Response	Comment Status R s ignore other AP admitted in nged to allow other frame th t pilots (as specified in e.g. <i>Response Status</i> C Ps benefits would disappear d times.	ransmissions to t 07/2158r1).	ake place at TMPTT,	t Comment The 2 ie the "Let F downl that a Might "Let F was s	Type E and paragraph he current RCPIMaxPwr rep link frame if the f STA knows its o read RCPIMaxPwr be eent at Max Trans	Comment Status A re is awkward and should be resenting the RCPI that would rame were sent with the Max own STA Noise Floor (in dBm the RCPI that was received b smit Power. Then, assuming and its STA Max Transmit Po	d have been rece Transmit Power) and STA Max T y a STA in a dov that this same S	Furthermore assume ransmit Power. Then:" /nlink frame if the frame FA knows its STA
	P 99 Comment Status A SNR ceiling calculation is in er limits on the same freque			ACCE	ept in princip	Response Status C LE. This comment is deemed insideration in developing fut		
•	match regulatory and oper specified in e.g. 07/2158r1)		ents, or remove	Stand C/ 11 O'Hara, R	SC 11.3	rofessionally prior to publicat P83	ion. L 30	# 198
Response ACCEPT IN PRINCIPLE	Response Status C E. Editor to implement 07/05	535r5.			51	Comment Status R urement Pilot has not been p urposes.	roven. It consum	Har es bandwidth that is
				Suggester delete		inning on line 30 and conclud	ding on line 50.	
				Response REJE		<i>Response Status</i> C nt Pilots may be useful in the	DFS bands befo	pre association, and to

quickly harvest RSSIs during roaming.

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

 SORT ORDER:Clause, Subclause, page, line
 Comment ID # 198

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September 2007		IEEE P80	2.11k D8.0 Radio Resc	ource Meas	surements o	comments			802-11-07/2422r0
C/ 11 SC 11.8 PAINE, RICHARD H	P84	L 15	# 71	C/ 11 Myles, An	SC 11.8 drew F		P84	L 25	# 204
introducing a list. SuggestedRemedy Delete the text on lin		the text on line	<i>CRgroup</i> 15 is no longer	Howe merril	ext changes "o ver, it is not cl y transmit pac TA is joining.	operate" to "join" lear why this cha			Kwak uggests a STA may text does not say what
Response	Response Status W e text on line 15. Underline lines	21-24 and char	age the editing					s comment why jo	oin is better. In the
	e that this is only reformatting ex			Response	-	what is being joir <i>Response</i>			
C/ 11 SC 11.8	P 84	L 21	# 203	ACCE		Response			
Myles, Andrew F Comment Type ER The paragraph starti SuggestedRemedy Fix it	Comment Status A ng, "A STA &" should be a dash	i point	Editor & CRgroup		Type TR	Comment ormative, and ne	P85 Status A eglects Regulat	L 15 ory Classes, which	# 142 Hart ch also affect operation
Response ACCEPT IN PRINCI	Response Status C PLE. This clause has been refo posed text changes in CID#71 a		ect the inconsistency	Suggeste Delete	dRemedy e change to fo	ourth paragraph o			
C/ 11 SC 11.8	P84	L 21	# 72	Response ACCE		Response	Status C		
PAINE, RICHARD H Comment Type ER	Comment Status A		Editor & CRgroup	C/ 11 Ecclesine	SC 11.8.2 , Peter	2	P85	L 20	# 153
LB103#60-Marshall: SuggestedRemedy Underline this parage	New text should be underlined raph of new text				s changed fro	m 'the current ch		operating channe and all the bands	
Response	Response Status C			Suggeste	dRemedy				
instruction with "Refo	PLE. Assigned to editor. EDITC ormat fourth paragraph of 11.8 a erling paragraph at P84L21.			Either	delete the tex				robe Response frame orted bands - e.g. 5
				Response	9	Response	Status C		
					EPT IN PRINC	, CIPLE. Change "t		channels" to "that	STA's operating

Septem	ber 2007		IEEE P80	2.11k D8.0 Radio Reso	ource Meas	surements co	mments		802-11-07/2422r0
Cl 11 Ecclesine,	SC 11.8.2 Peter	P 85	L 25	# 143	<i>Cl</i> 15 Kays, Rue	SC 15.2.7 ediger	P103	L11	# 113
Comment 11.8.2		Comment Status A vithout underscore markings		Editor	Comment Figure		Comment Status A de any change compared to Fi	g. 15-8 of IEEE	Edito 802.11-2007
Suggested Prope	<i>IRemedy</i> rly show text char	nges			Suggester Remo	<i>dRemedy</i> ove Line 6-26			
Response		Response Status C			Response	e	Response Status C		
docum	ent editor for con	E. This comment is deemed e sideration in developing future ofessionally prior to publication	e drafts. Pleas		docur	ment editor for c	PLE. This comment is deemed onsideration in developing futu professionally prior to publication	ire drafts. Pleas	
Cl 12 Ecclesine,	SC 12.3.5.10 Peter	P101	L 24	# 149	C/ 15 Kwak, Jos	SC 15.2.7 seph A	P103	L 22	# 242
Comment	Туре Е	Comment Status A		Editor	Comment	Type E	Comment Status A		Edito
	g instruction not ir	n bold italic					show figure change which had n conversion to FRAME forma		ORD versions. Error
Suggested	mment				Suggeste	dRemedy			
Response		Response Status C				eve figure showinge in the figure.	ng change from prior versions	and add editoria	al note pointing out the
		E. This comment is deemed e isideration in developing future			Response	e	Response Status C		
standa	ards are edited pro	ofessionally prior to publication	n.		docur	ment editor for c	PLE. This comment is deemed onsideration in developing futu professionally prior to publicati	ire drafts. Pleas	
C/ 12	SC 12.3.5.8.2	P100	L 29	# 150	Stanu	alus ale eulleu		011.	
Ecclesine,					C/ 15	SC 15.2.7	P103	L 6	# 130
Comment	21	Comment Status A underscore markings here ar	41225020	Editor	Ecclesine	, Peter			
	-	underscore markings here ar	iu 12.3.5.9.2 a	10 12.3.5.10.2	Comment	51	Comment Status A		Edito
Suggested Prope	<i>Remedy</i> rly show text char	nges			There is cor		no change from the base stand	lard figure 15-8	Receive PLCP, which
Response		Response Status C			Suggeste				
		E. This comment is deemed e sideration in developing future				ot replace a corre g instruction.	ect figure without describing w	hat is changed i	n an Editorial Note or
standa	ards are edited pro	ofessionally prior to publication	n.		Response	9	Response Status C		
					docur	ment editor for c	PLE. This comment is deemed onsideration in developing futu professionally prior to publicati	ire drafts. Pleas	

September 2007		IEEE P80	2.11k D8.0 Radio Res	ource Measurem	nents con	nments		802-11-07/2422r0
<i>CI</i> 17 SC 17.2.3 PAINE, RICHARD H	P105	L 33	# 73	CI 17 SC Kwak, Joseph A	C 17.3.12	P107	L 33	# 243
Comment Type ER LB103#61-Marshall: Ta	Comment Status A ableTable		Editor & CRgroup		does not sh	Comment Status A now figure change which had conversion to FRAME format		Editor ORD versions. Error
SuggestedRemedy Table				SuggestedRem Retrieve fig	e <i>dy</i> ure showing	g change from prior versions		al note pointing out the
Response ACCEPT.	Response Status C			change in th Response	ne figure.	Response Status C		
<i>Cl</i> 17 <i>SC</i> 17.2.3 Ecclesine, Peter	P105	L 36	# 151	document e	ditor for co	E. This comment is deemed nsideration in developing futu rofessionally prior to publication	ire drafts. Pleas	
	Comment Status A E that is added to 18.3.5. Cla led to report Antenna Informa		Kwak ave antenna diversity,	C/ 17 SC Kays, Ruediger	0 17.3.12	P107	L 5	# 114
SuggestedRemedy Add Antenna informati	on to Clause 17.			Comment Type Figure conta		Comment Status A rst row (RXVECTER)		Editor
	Response Status C e 134 to add new row "ANT_			SuggestedRem Replace "(R)" by "(RXVECTOR)"		
Cl 17 SC 17.3.12 Ecclesine, Peter	VECTOR), PHY-RXEND.indi	L1	R) / 0 to 255" # [<u>131</u>]	document e	ditor for co	Response Status C E. This comment is deemed nsideration in developing futu rofessionally prior to publicati	ire drafts. Pleas	
Comment Type E There appears to be no is correct?	Comment Status A o change from the base stand	lard figure 17-16	<i>Editor</i> 6 Receive PLCP, which	CI 17 SC PAINE, RICHAR	C 17.5.4.2 RD H	P107	L 46	# 74
SuggestedRemedy Do not replace a corre editing instruction.	ct figure without describing w	nat is changed i	n an Editorial Note or	Comment Type LB103#62-N	/arshall: Ta	Comment Status A ableTable		Editor & CRgroup
Response	Response Status C			SuggestedRem Table	edy			
	E. This comment is deemed			Response ACCEPT.		Response Status C		

September 2007		IEEE P80	2.11k D8.0 Radio Reso	ource Measurements co	mments		802-11-07/2422r0
<i>Cl</i> 18 <i>SC</i> 18.2.6 Ecclesine, Peter	P110	L1	# 132	<i>CI</i> 18 SC 18.4.4.2 PAINE, RICHARD H	P111	L 17	# 76
Comment Type E There appears to be n	Comment Status A o change from the base stand	lard figure 18-9,	Editor Receive PLCP.	Comment Type ER LB103#64-Marshall: ⁻	Comment Status A		Editor & CRgroup
editing instruction. Response	ct figure without describing w <i>Response Status</i> C LE. This comment is deemed	J. J		SuggestedRemedy Table Response ACCEPT.	Response Status C		
	prosideration in developing futu professionally prior to publicati		se note that the IEEE	<i>CI</i> 19 SC 19.2 PAINE, RICHARD H	P 112	L 45	# 77
C/ 18 SC 18.2.6 Kwak, Joseph A	P110	L 33	# 244	Comment Type ER LB103#65-Marshall: ⁻	Comment Status A FableTable		Editor & CRgroup
probably happened on SuggestedRemedy	Comment Status A how figure change which had o conversion to FRAME formation g change from prior versions	t.		SuggestedRemedy Table Response ACCEPT.	Response Status C		
change in the figure. Response ACCEPT IN PRINCIPI document editor for co	Response Status C LE. This comment is deemed posideration in developing futu professionally prior to publicati	editorial and de re drafts. Pleas	legated to the	CI 19 SC 19.9.4.2 PAINE, RICHARD H Comment Type ER LB103#66-Marshall:	Comment Status A	L 8	# 78 Editor & CRgrou
<i>Cl</i> 18 SC 18.3.5 PAINE, RICHARD H	P110	L 45	# 75	SuggestedRemedy Table			
<i>Comment Type</i> ER LB103#63-Marshall: T	Comment Status A		Editor & CRgroup	Response ACCEPT.	Response Status C		
SuggestedRemedy Table							
Response ACCEPT.	Response Status C						

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

 SORT ORDER:Clause, Subclause, page, line
 Comment ID # 78

IEEE P802.11k D8.0 Radio Resource Measurements comments

CI 19 SC 19.9.4.3 PAINE, RICHARD H	P 113	L 18	# 79	Cl 23 SC 23 Hansen, C J	P 15	L 30	# 229
Comment Type ER LB103#67-Marshall: T SuggestedRemedy Table	Comment Status A ableTable		Editor & CRgroup	and noise floor refe	Comment Status A en noise floor referring to anten rring to minimum noise floor act or field transmit does not have m	ross all receive a	ntennas. if antenna
Response ACCEPT.	Response Status C			SuggestedRemedy Remove			
C/ 21 SC 21 Hansen, C J	P17	L	# 230	Response ACCEPT IN PRINC	Response Status C CIPLE. Editor to implement 07/09	535r5	
	Comment Status R	equest can be n	<i>CRgroup</i> nade. what is the	C/ 24 SC 24 Hansen, C J	P86	L 2	# 233
expected behavior if th SuggestedRemedy set maximum frequence	nis nappens? cy allowable for measurement	t requests to onc	e per 30 secs		Comment Status R J is with respect to what point in o the radio, and those radio req		
Response REJECT. A STA has	Response Status C the option to reject a measure	ement (11.10.4).	P88L7 indicates that	SuggestedRemedy remove accuracy m	nandate		
only one measuremen measurement request	nt request frame may be active frame may be sent at any tim easurement request frame. P15	e in any STA at a	any time. A new	accuracy requireme	Response Status C ED REJECT TGk does not spe ent referenced here is the accura- ing delays to initiate a measure	acy of the report	ed actual measurement
Hansen, C J	P1 3	L 21	# 228		t time accuracy. Refer to Claus		
	Comment Status A ceiver noise"? if it includes pla stinguish between this type of			C/ A SC A.4 Kays, Ruediger	P114	L 4	# 115
SuggestedRemedy Remove				Comment Type E Reference should b	Comment Status A e made to IEEE 802.11-2007		Edito
Response ACCEPT IN PRINCIP	Response Status C LE. Editor to implement 07/05	35r5		SuggestedRemedy Change to: "A.4 PICS proforma	a-IEEE 802.11, 2007 Edition"		
				Response ACCEPT IN PRINC document editor for	Response Status C IPLE. This comment is deemed consideration in developing fut d professionally prior to publicat	ure drafts. Pleas	

September 2007		IEEE P802	.11k D8.0 Radio Reso	ource Measurements comments	5		802-11-07/2422r0
C/ Boilerpl SC Boilerplat	e P	L 10	# 24	C/ Boilerpl SC Boilerplate PAINE, RICHARD H	Р	L 28	# 28
Comment Type ER LB103#12-Marshall: Am	Comment Status A nendment number is missi	ng.	Editor & CRgroup	Comment Type ER Com LB103#16-Marshall: missing te	ext for "Errata"		Editor & CRgroup
SuggestedRemedy Change to "Amendment	t 1"			SuggestedRemedy Add it, use 802.11ma D9.0 as	model		
Response ACCEPT.	Response Status C			Response Resp ACCEPT.	onse Status C		
CI Boilerpl SC Boilerplat PAINE, RICHARD H	e P	L 15	# 25	C/ Boilerpl SC Boilerplate PAINE, RICHARD H	Р	L 31	# 29
Comment Type ER LB103#13-Marshall: Co	Comment Status A pyright statement needs to	b be updated for 200	Editor & CRgroup	Comment Type ER Com LB103#17-Marshall: missing te	ment Status A ext for "Interpretations	."	Editor & CRgroup
SuggestedRemedy Change year to "2007"				SuggestedRemedy Add it, use 802.11ma D9.0 as	model		
Response ACCEPT.	Response Status C			Response Resp ACCEPT.	onse Status C		
C/ Boilerpl SC Boilerplat PAINE, RICHARD H	e P	L 2	# 26	C/ Boilerpl SC Boilerplate PAINE, RICHARD H	Р	L 34	# 32
Comment Type ER LB103#14-Marshall: Co	Comment Status A pyright statement needs to	b be updated for 200	Editor & CRgroup	Comment Type ER Com LB103#20-Marshall: TableTabl	e		Editor & CRgroup
SuggestedRemedy Change year to "2007"				SuggestedRemedy Table			
Response ACCEPT.	Response Status C			Response Resp ACCEPT.	onse Status C		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER:Clause, Subclause, page, line

September 2007		IEEE P80	2.11k D8.0 Radio Reso	ource Meas	surement	s con	nments		802-11-07/2422r0
CI Boilerpl SC Boilerplate PAINE, RICHARD H	e P	L 4	# <u>31</u>	C/ D O'Hara, R	SC D Robert		P121	L 25	# 201
Comment Type ER LB103#19-Marshall: Tab the draft. In particular, th correctly with lower case	ey are shown here with	n upper case letters,		bette			Comment Status R urement Pilot has not been pro urposes.	oven. It consun	<i>Hart</i> nes bandwidth that is
SuggestedRemedy Make consistent				delete	e the three	attribu	tes associated with measurem	ient pilots.	
Response ACCEPT.	Response Status C				ECT. Measu		Response Status C nt Pilots may be useful in the D during roaming.	OFS bands bef	ore association, and to
CI Boilerpl SC Boilerplate PAINE, RICHARD H	e P	L 4	# 30	C/ D Ecclesine	SC D e, Peter		P1 21	L 26	# 133
Comment Type ER LB103#18-Marshall: Figuin the draft. In particular, draft correctly with lower	they are shown here w	vith upper case letter		Truth			Comment Status R current practice for INTEGER,	Integer32, Un	Editor & CRgroup signed32 and
SuggestedRemedy Make consistent					nine all Ann	ex D c	hanges and follow guidelines i	n RFC-4181.	
Response ACCEPT.	Response Status C			, REJE			Response Status C of 0 in INTEGER indicate speci	ial cases, and	are documented in the
C/ Boilerpl SC Boilerplate PAINE, RICHARD H	e P	L 99	# 27	C/ D O'Hara, R	SC D Robert		P 123	L 18	# 202
Comment Type ER LB103#15-Marshall: Cop	Comment Status A	eeds to be updated f	Editor & CRgroup or 2007				Comment Status R urement Pilot has not been pro	oven. It consun	Hart nes bandwidth that is
SuggestedRemedy Change year to "2007"				Suggeste	edRemedy		tes associated with measurem	ent pilots.	
Response ACCEPT.	Response Status C			Response REJE	e ECT. Measu	uremer	Response Status C nt Pilots may be useful in the E during roaming.	·	ore association, and to

IEEE P802.11k D8.0 Radio Resource Measurements comments

	P 125	L 23	# 80	C/D SCD	P 155	L16	# 138
PAINE, RICHARD H	Commont Status		Crow	Ecclesine, Peter	Commont Status		C m
Comment Type E LB103#68-Marshall: wh	Comment Status A by the extraneous page break	?	Gray	Comment Type E The listed dot11LC	Comment Status A	ETF RFC-3825.	Gra and should be
SuggestedRemedy	, , , ,			accessed big-endia	an, and the DESCRIPTION shou RFC-3825, and is accessed big-	ld have a final se	
delete the extraneous pa	0			SuggestedRemedy			
Response	Response Status C				TIONs of dot11LCILatitudeReso		
document editor for con	E. This comment is deemed isideration in developing futu ofessionally prior to publication	re drafts. Please		dot11LCILongitude	raction, dot11LCILongitudeReso Fraction, dot11LCIAltitudeType, teger and dot11LCIAltitudeFracti	dot11LCIAltitude	Resolution,
C/D SCD	P 125	L3	# 199	Response	Response Status C		
D'Hara, Robert	1 123	23	# 199		CIPLE. This comment is deemed		
Comment Type TR	Comment Status A		CRgroup		r consideration in developing fut ed professionally prior to publicat		e note that the IEEE
	plication of the means to obta	ain the reports a	• •				
measurement. If the info reports to the requester	ormation is available in the N of the measurments can be	IIB, the action fra deleted. Howeve	ames conveying the er, it is not certain that	C/ D SC D Ecclesine, Peter	P 155	L 19	# 139
	SNMP to access the MIB. The	nerefore the action	on frames are required.	Comment Type ER	Comment Status A		Gra
SuggestedRemedy	motion convolued in action fr	ame measureme	ant report reconcises is		ude/Longitude/Altitude Integer an d to Lat/Lon Integer (-359359),		
	mation conveyed in action fra		ent report responses is			(
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TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER:Clause, Subclause, page, line

Comment ID # 139

IEEE P802.11k D8.0 Radio Resource Measurements comments

Ecclesine. I	SC D	P 161	L 49	# 134	C/D SCD	P 169	L 38	# 81
, -	Peter				PAINE, RICHARD H			
Comment T	Type TR	Comment Status A		Gray	Comment Type ER	Comment Status A		Gra
APCha		ChannelList may be larger that y should have a ChannelRepo			"dot11SMTbase6" t	: underlining of "dot11SMTbase" o "dot11SMTbase7"	7" is not correct.	This is changing
		lory Old33			SuggestedRemedy			
Suggestedl Change		portEntry as described in corr	ment		remove underlining	of "dot11SMTbase", show "6" w	ith strikethrough	n, keep "7" underlined
-			intent		Response	Response Status C		
Response		Response Status C			ACCEPT.			
OF Dot dot11A	11APChannelR PChannelRepo	LE. P161L50 Change "OCTET eportChannelListEntry". P16 rtChannelListEntry as an INTE o a specific channel being rep	2L6: Insert new EGER(1255) ar	object nd describe as "This	CI D SC D PAINE, RICHARD H	P170	L 15	# 22
	h entry".			change Lach ottor	Comment Type E	Comment Status A		Gra
) D	SC D	P162	L 49	# 135	LB103#10-Stephen	s: "Deprecate the current SMT b	oase". Please sh	now editing instructions.
cclesine, I		F 102	L 4 5	# 135	SuggestedRemedy			
				0				
Comment T		Comment Status A		Gray	Response	Response Status C		
	here else in the le is inconsister	Amendment, RegulatoryClas	s comes before	ChannelNumber, so				
เการ เสม						IDLE This commont is doomed	aditorial and do	logated to the
.		nt.				IPLE. This comment is deemed consideration in developing future		
00	Remedy		h h a nD a n a nt E a tru		document editor for	IPLE. This comment is deemed consideration in developing future d professionally prior to publication	ure drafts. Pleas	
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Put Ree position	Remedy	efore ChannelNumber in Neig	hborReportEntry	/ and swap their	document editor for standards are edite C/ D SC D	consideration in developing futu	ure drafts. Pleas	
Put Reg positior Response	Remedy gulatoryClass bo ns on page 164.	efore ChannelNumber in Neig	hborReportEntry	y and swap their	document editor for standards are edite C/ D SC D Ecclesine, Peter	consideration in developing futu d professionally prior to publicati P171	ure drafts. Pleas ion.	# 137
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TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER:Clause, Subclause, page, line Comment ID # 137

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Submission

September 2007 IEEE P802.11k D8.0 Radio Reso	urce Measurements comments 802-11-07/2422r0
C/ D P 172 L 24 # 82 PAINE, RICHARD H	CI General SC General P L # 23 PAINE, RICHARD H
Comment Type TR Comment Status A Gray LB103#70-Marshall: dot11Groups 35 is already in use, for dot11OFDMComplianceGroup2 SuggestedRemedy SuggestedRemedy Change this to dot11Groups 36, adjust the other dot11Groups (page 171 line 39, page 174 line 26, and page 174 line 49) Response Response Status C ACCEPT. Comment Status C C C C	Comment TypeTRComment StatusACRgroupLB103#11-Marshall: Numerous comments from D6.0 are marked in the comment resolution spreadsheet as "Accepted", but the changes were not made in D7.0. They are accompanied in the spreadsheet by a comment from the Editor, disagreeing with the accepted resolution. The Technical Editor is only one member of the Task Group, and only
C/ General SC General P L # 21 # PAINE, RICHARD H Comment Type E Comment Status A Editor LB103#09-Stephens: LB103#12-Marshall: When creating redlines, please modify the style of the insert marking so that it is not underlined. That way underlines in inserted text can Editor	SuggestedRemedy Editor to incorporate all the approved resolutions to D6.0 comments into the draft. Response Response Status C ACCEPT. There is no text change needed for this general comment which describes 15 other specific comments for which responses are provided elsewhere.
still be distinguished. (see 9.8.2.1 for an example of where this creates a problem). <i>SuggestedRemedy</i>	CI General SC General P L # 16 PAINE, RICHARD H
Response Response Status C ACCEPT IN PRINCIPLE. This comment is deemed editorial and delegated to the document editor for consideration in developing future drafts. Please note that the IEEE standards are edited professionally prior to publication.	Comment Type E Comment Status A Editor LB103#04-Stephens: Bookmarks in the redline .pdf file help your readers navigate Editor SuggestedRemedy Please add .pdf bookmarks. For the status C Response Response Status C ACCEPT IN PRINCIPLE. This comment is deemed editorial and delegated to the document editor for consideration in developing future drafts. Please note that the IEEE standards are edited professionally prior to publication.

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IEEE P802.11k D8.0 Radio Resource Measurements comments

CRgroup

Editor

C/ General SC General	Р	L	# 212

Myles, Andrew F

Comment Type TR Comment Status A

Many of the measurements specified in this amendment are long and complex, with many options.

Is there any evidence, eg from the use of similar constructs in pre standard implementations, that these measurements are actually useful? Assertions of usefulness without evidence are insufficient

SuggestedRemedy

Provide evidence that each measurement (and all its options) and measurement mechanism is useful, or consider issuing 802.11k as a trial standard until such evidence is obtained.

The best evidence is that a vendor is using the measurements and the various mechanism (or something similar) today in real systems and that they are useful. Lesser forms of evidence are also acceptable.

One useful form might be a list of measurements, with options broken out separately, and a list of measurement mechanisms. Each item should then be justified with a goal, a summary of how that goal is satisfied by the measurement or mechanism and some level of proof from existing implementations that is actually works.

In some sense my request is totally unreasonable, and the TG would be completely justified in rejecting my comment. However, this TGk has been designing 802.11k for many years and it is worth taking a step back and re-evaluating whether the result satisfies the original goals. The regular TG participants are the best people to undertake this task.

Response

Response Status C

ACCEPT IN PRINCIPLE. The document 02/508r14 (reissued as 07/2323r0 on the SA server) is the "requirements and issues" document of TGk and describes the background for the RRM architecture and the RRM specification. There are many proprietary implementations of these constructs implemented worldwide by the major wireless LAN equipment providers.

C/ I	SC I.1	P175	L	# 167
Harrington, T	imothy E			

Comment Type E Comment Status A

Request for deprecation of term "ISM bands", eg draft at Table I.2 and elsewhere if applicable, at least in context of FCC Part 15 operations. In general FCC rules do not use the term "ISM band", rather citation of particular part 15

operating frequency ranges is preferred, eg draft at Table I.4. OPINIONS ARE AUTHOR'S ONLY, AND MAY NOT BE FCC'S

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#### SuggestedRemedy

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Request for deprecation of term "ISM bands", eg draft at Table I.2 and elsewhere if applicable, at least in context of FCC Part 15 operations. In general FCC rules do not use the term "ISM band", rather citation of particular part 15 operating frequency ranges is preferred, eg draft at Table I.4. OPINIONS ARE AUTHOR'S ONLY, AND MAY NOT BE FCC'S

Response

Response Status C

ACCEPT IN PRINCIPLE. This comment is deemed editorial and delegated to the document editor for consideration in developing future drafts. Please note that the IEEE standards are edited professionally prior to publication.

Comment ID # 167

IEEE P802.11k D8.0 Radio Resource Measurements comments

C/ I SC I.1 Harrington, Timothy E	P176	L	# 169	0	C/ I Harrington, T	SC I.1 mothy E	P176	L	# 168
Comment Type E	Comment Status A			Editor	Comment Ty	pe E	Comment Status A		Editor
- perhaps intent is 15.247(b)(4)(i)? OPINIONS ARE AUTHOR'S ONLY, AND MAY NOT BE FCC'S 			 preferred citation format is "47 CFR 15.247 [B8]" fyi this reads "title 47, part 15, section 247", where title 47 is "Telecommunication" and chapter I of title 47 is "Federal Communications Commission" OPINIONS ARE AUTHOR'S ONLY, AND MAY NOT BE FCC'S 						
ACCEPT IN PRINCIPLE. This comment is deemed editorial and delegated to the document editor for consideration in developing future drafts. Please note that the IEEE standards are edited professionally prior to publication.			Response Status C ACCEPT IN PRINCIPLE. This comment is deemed editorial and delegated to the document editor for consideration in developing future drafts. Please note that the IEEE standards are edited professionally prior to publication.						

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