IEEE P802.11REV-ma D5.0 - WLAN Revision Comments

CI 00 SC COORDINATION, EDITOR	P	L	# 3	C/ 00 SC P L # 20 COORDINATION, SCC14
Comment Type ER Good to go, Section 1 of -Mike Fisher, IEEE Sta SuggestedRemedy	Comment Status D comments have been addresse ff Editor	ed.		Comment Type GR Comment Status D In the early pages (!) of this document there is a large section devoted to definitions. However, it does not include definitions of "byte" and "octet". In some standards the two terms are synonymous, but in this standard the terms are used and are not synonyms. Please add the two definitions.
Proposed Response PROPOSED ACCEPT.	Response Status W			SuggestedRemedy
C/ 00 SC PONNUSWAMY, SUBBUR	P AJAN Individual	L	# 59	PROPOSED ACCEPT IN PRINCIPLE. All uses of "byte" the the text are synonymous with "octet". Replace all occurrences of "byte" with "octet", except in the C code in Annex H.
Comment Type G more reason to keep it, SuggestedRemedy To Proposed Response	Comment Status D as there may be Response Status W			In H.5.1: 1. replace "preferable" with "preferably", 2. replace "lowest byte of time" with "least significant octet of the timestamp" in three locations, 3. replace "packet is seen" with "packet is received", 4. replace "concatenate the seen time" with "concatenate this octet", 5. replace "take the lowest byte of RSSI" with "take the least significant octet of RSSI"
PROPOSED REJECT.	Entry error on web form.			 6. replace "concatenate the sent time, received time, RSSI, and Snonce" with concatenate the sent time, received time, RSSI, and SNonce octets"
C/ 00 SC WORSTELL, HARRY R	<i>P</i> Individual	L	# 19	C/ 00 SC P L # 57
Comment Type TR This ballot does not con	Comment Status D ntain the 802.11e ammendment	nt and should	include it. I vote NO.	Comment Type G Comment Status D
SuggestedRemedy Include 802.11e in the	rollup			SuggestedRemedy
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed ResponseResponse StatusWPROPOSED REJECT.Entry error on web form.

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G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

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C/ 00 SC // PONNUSWAMY, SUBBURAJAN Ind	P L	# 56	C/ 00 SC P L # 83
Comment Type G Comment State State 1. This capability was added by	tus D		Comment Type TR Comment Status X With this revision the definition of 11a, 11b and 11g get lost.
SuggestedRemedy vi) Action			SuggestedRemedy Indicate in the PICS (Annex A) which items are mandatory for 11a, 11b and 11g.
Proposed Response Response State PROPOSED REJECT. Entry error on we	us W eb form.		Proposed Response Response Status O
CI 00 SC I PONNUSWAMY, SUBBURAJAN Ind	P L lividual	# 60	C/ 00 SC P L # 63 PONNUSWAMY, SUBBURAJAN Individual
Comment Type G Comment State applications which use this capability.	tus D		Comment Type G Comment Status D 1 or State 3 are unprotected
SuggestedRemedy vi) Spectrum Management Action			SuggestedRemedy
Proposed Response Response State PROPOSED REJECT. Entry error on we	<i>us</i> W eb form.		Proposed ResponseResponse StatusWPROPOSED REJECT. Entry error on web form.
CI 00 SC I PONNUSWAMY, SUBBURAJAN Ind	P L lividual	# 61	CI 00 SC P L # 58 PONNUSWAMY, SUBBURAJAN Individual
Comment Type G Comment State Now, and prior to the introduction of TGw	tus D		Comment TypeGComment StatusDYes, this is a unique capability, all the
SuggestedRemedy			SuggestedRemedy Within an IBSS, action frames are class 1.
Proposed Response Response Statu PROPOSED REJECT. Entry error on we	us W eb form.		Proposed ResponseResponse StatusWPROPOSED REJECT.Entry error on web form.
C/ 00 SC // PONNUSWAMY, SUBBURAJAN Ind	P L lividual	# 62	C/ 00 SC P L # 55 PONNUSWAMY, SUBBURAJAN Individual
Comment Type G Comment State all Action frames, whether sent in State	tus D		Comment Type G Comment Status D 802.11 to support Action frames in
SuggestedRemedy			SuggestedRemedy
Proposed Response Response Statu PROPOSED REJECT. Entry error on we	<i>us</i> W eb form.		Proposed ResponseResponse StatusWPROPOSED REJECT.Entry error on web form.
TYPE: TR/technical required ER/editorial req COMMENT STATUS: D/dispatched A/accept SORT ORDER: Clause, Subclause, page, li	uired GR/general requ ted R/rejected RES ine	iired T/technical E/editorial G/g PONSE STATUS: O/open W/w	ritten C/closed U/unsatisfied Z/withdrawn C/ 00 Page 2 of 18 SC 11/17/2005 6:23:41 PM

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doc.: IEEE 802.11/05-1167r3

	P 565	1	# 00		P	1	# 72			
MORETON, MIKE	Individual	L	# 60	MYLES, ANDREW F	Individual	L				
Comment Type TR It's no longer possible to As users of this standar	Comment Status X o identify which PICS items of d tend to identify functionalit	vere introduced y by the name of	in which ammendment. of the ammendment that	Comment Type TR Comment Status D There is little obvious value in this annex						
introduced it, this is a bit	t of a problem.			Remove entire anne	x					
SuggestedRemedy	11a" "802 11b" etc			Proposed Response	Response Status W					
Proposed Response	Response Status O			PROPOSED REJEC readers new to the s providing normative	CT. The material in the annex d standard, to understand the func- requirements.	bes provide use tion and descri	eful information to ption of an AP, without			
C/ 00 SC Generally STEPHENS, ADRIAN P	P Individual	L	# 9	C/ 00 SC N & M STEPHENS, ADRIAN P	Р Individual	L	# 7			
Comment Type E There are no line numbe	Comment Status D ers			Comment Type ER There is confusion b	Comment Status X etween these two annexes as to for an AP to discover about mar	o exactly what a	an AP is. Annex N rom the DS_Annex M			
SuggestedRemedy Add them				says that this is possible.						
Proposed Response PROPOSED ACCEPT.	Response Status W			There probably need communication. Alte includes the DS. in N	ds to be a new DS-STA-NOTIFY matively the use of terms like A they are called out separately	7.request (from P needs to be o	DS to AP) to provide this clarified (i.e. in M it			
CI 00 SC M MYLES, ANDREW F	P Individual	L	# 71	Proposed Response Darwin to provide dr	Response Status W aft response.					
Comment Type TR This annex allegedly pro However, in reality it has totally disconnected fror and the somi formal appr	Comment Status D ovides an AP functional desi s very limited value given the m implementation reality. Th	cription at it is mostly co e use of a large	ntent free and almost number of new terms	CI 02 SC 2 O'HARA, ROBERT Comment Type T	P 3 Individual Comment Status D	L	# <u>3</u> 7			
SuggestedRemedy	concation language only inc	64363 113 0036	anty.	RFC 4086 obsoleted	RFC 1750 (it still has the same	e title).				
Remove entire annex				SuggestedRemedy						
Proposed Response PROPOSED REJECT. readers new to the stand providing normative requ	Response Status W The material in the annex d dard, to understand the func uirements.	oes provide use tion and descri	eful information to otion of an AP, without	Proposed Response PROPOSED ACCEI	Response Status W PT. Include correct date in citati	on.				

 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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				· · · · · · · · · · · · · · · · · · ·							
C/ 02 SC 2 O'HARA, ROBERT	P 3 Individual	L	# 36	CI 02 SC 2 O'HARA, ROBERT	P 3 Individual	L	# 38				
Comment Type G Old citation for IEEE 80	Comment Status D 02.1X dating from when it was	a draft.		<i>Comment Type</i> T Citation for RFC 4017 has	Comment Status D inaccurate title.						
SuggestedRemedy IEEE P802.1X-2004 cit name (no draft!): "IEEE Network Access Contro	ation should remove the "P" a Standard for Local and Metro I".	and change the opolitan Area N	name to the official letworks: Port-Based	SuggestedRemedy Change title of RFC 4017 t Requirements for Wireless Proposed Response	o "Extensible Authenticatio LANs". Response Status W	on Protocol (EA	AP) Method				
Proposed Response PROPOSED ACCEPT.	Response Status W			PROPOSED ACCEPT.							
C/ 02 SC 2	P 3	L	# 39	C/ 03 SC 3.10 O'HARA, ROBERT	P 5 Individual	L	# 41				
O'HARA, ROBERT Comment Type E IEEE Std 802-1990 sho	Individual Comment Status D buld be -2001.			Comment Type E Comment Status D Incorrect citation of IEEE 802.1X.							
SuggestedRemedy Change to IEEE Std 80)2-2001.			Replace with "IEEE 802.1X	(-2004."						
Proposed Response PROPOSED ACCEPT.	Response Status W			PROPOSED ACCEPT.							
C/ 02 SC 2	P 3	L	# 35	C/ 03 SC 3.106 O'HARA, ROBERT	P 11 Individual	L	# 42				
Comment Type G	Comment Status D	a dan da (a a a a a		Comment Type E Incorrect citation of IEEE 8	Comment Status D 02.1X.						
track documents), but a references.	are informational documents,	yet they are cit	e they even standards- ed here as "normative"	SuggestedRemedy Replace with "See IEEE 80	02.1X-2004."						
SuggestedRemedy Use the citation format the citation.	from the RFC index, which ha	as the standarc	lization status as part of	Proposed Response F PROPOSED ACCEPT.	Response Status W						
Proposed Response	Response Status W										

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

C/ 03 SC 3.106 Page 4 of 18 11/17/2005 6:23:41 PM

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PROPOSED ACCEPT.

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C/ 03 SC 3.107 O'HARA, ROBERT	P 11 Individual	L	# 43	C/ 03 SC 3.19 P 6 L # 46 O'HARA, ROBERT Individual						
Comment Type E Lack of parallel structure	Comment Status D e with 3.11.			Comment Type E Comment Status D The name of the defined term is not in boldface.						
SuggestedRemedy Should have similar stru IEEE 802.1X Supplicant Proposed Response PROPOSED ACCEPT.	icture, such as: "The medium t." Response Status W	access contro	I (MAC) address of the	SuggestedRemedy Change formatting of "channel spacing" to boldface. Proposed Response Response Status W PROPOSED ACCEPT.						
C/ 03 SC 3.11 O'HARA, ROBERT	P 5 Individual	L	# 44	C/ 03 SC 3.24 P 6 L # 47 O'HARA, ROBERT Individual Inditititititititit						
Comment Type E Awkward sentence struct	ent Type E Comment Status D /kward sentence structure.			Comment Type E Comment Status D Remove the second "with" from the name of the defined term.						
SuggestedRemedy Would be clearer as: "Th	he medium access control (N	IAC) address c	f the IEEE 802.1X	SuggesteaRemedy Change all instances that spell out the definition of CCMP to remove the second "with". Proposed Response Response Status W						
Authenticator." Proposed Response Response Status W PROPOSED ACCEPT.				PROPOSED ACCEPT. Make the deletion in the following clauses: 3.24 in two places 3.79						
CI 03 SC 3.116 O'HARA, ROBERT	P 12 Individual	L	# 4 <u>5</u>	3.95 4 5.2.3.2						
Comment Type E Inconsistent definition. T "directed address".	Comment Status D The synonym for "unicast frar	ne" should be '	directed frame" not	A.4.4.1 PC34.1.2.1 C/ 03 SC 3.26 P 6 L # 40 O'HARA, ROBERT Individual						
SuggestedRemedy Change "directed addres	ss" to "directed frame".			Comment Type E Comment Status D Missing punctuation.						
Proposed Response PROPOSED ACCEPT. Change 3.30 and 3.116	Response Status W			SuggestedRemedy Add a space after "disclosure" and add a period at end of sentence.						
In 9.8, change "either di addressed".	rected or group-addressed" t	o "either individ	dual or group-	Proposed Response Response Status W PROPOSED ACCEPT.						

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	01	
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	C/ 03	Page 5 of 18
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C/ 03 SC 3.69	P 9	L	# 48	C/ 03	SC 3.72	P 9	L	# 49					
O HARA, ROBERT	Individual			O HARA,									
Comment Type E Too much detail.	Comment Status D			Commen Circu	<i>t Type</i> E lar definition.	Comment Status D							
SuggestedRemedy				Suggeste	dRemedy								
No need to mention fra sentence of the definition	me types when defining multic	ast. Remove al	I text after the first	Don'i "Refe	use "pair" or "p erring to, or an a	airwise" when defining "pairw ttribute of, two entities that ar	ise". This defin e associated w	ition avoids this issue: ith each other, e.g., an					
Proposed Response Response Status W PROPOSED ACCEPT.					access poitn (AP) and an associated station (STA), or two STAs in an independent basic service set (IBSS) network. This term is used to refer to a type of encryption key hierarchy pertaining to keys shared by only two entities."								
replace: 3.69 multicast: A mediu	Im access control (MAC) addro	ess that has the	e group bit set. A	Proposed PRO	l Response POSED ACCEF	Response Status W	is W						
multicast MAC service multicast MAC protocol address.	multicast MAC service data unit (MSDU) is one with a multicast destination ad multicast MAC protocol data unit (MPDU) or control frame is one with a multica address.		ination address. A n a multicast receiver	<i>CI</i> 03 O'HARA,	SC 3.8 ROBERT	P 5 Individual	L	# 50					
by:	:					Comment Status D							
3.69 multicast: When applied to a MAC service data unit (MSDU), it is an MSDU with a multicast address as the destination address (DA). When applied to a MAC protocol data unit (MPDU) or control frame it is an MPDU or control frame with a multicast address as the					edRemedy ove the word "su	uite" from the definition, or de	fine it.						
3.69a multicast address	3.69a multicast address: A medium access control (MAC) address that has the group bit					Proposed Response Response Status O Mike Moreton to propose resolution.							
set. 3.69b multicast-group a higher level convention	address: A medium access cor	ntrol (MAC) add	ress associated by	<i>CI</i> 03 O'HARA,	SC 3.9 ROBERT	P 5 Individual	L	# 51					
(the latter is consistent	with an existing definition in th	e standard)		Commen Incor	Comment Type E Comment Status D Incorrect citation of IEEE 802.1X.								
In reviewing the usage places so I suggest als	of "multcast address" I find it is o:	s used inaccura	tely in the following	Suggeste Repla	SuggestedRemedy Replace with "IEEE 802.1X-2004."								
In 9.7, replace all instar Add "–group" after "mu 4—"Data(bc/mc)" repre address in the Address	nces Iticast" to become: sents any frame of type Data v 1 field.	with a broadcas	t or multicast-group	Proposed PRO	l Response POSED ACCEF	Response Status W							
In the description of MI replace "multicast Addr	B, "dot11GroupAddressesTab ess" by "multicast-group addre	le" ess"											
In the description of MI replace "multicast Addr	B component, "dot11GroupAderesses" by "multicast-group aderesses" by	dressesEntry" - dresses"	> "dot11Address"										
TYPE: TR/technical require COMMENT STATUS: D/dis SORT ORDER: Clause, S	d ER/editorial required GR/go spatched A/accepted R/reject Subclause, page, line	eneral required ed RESPON	T/technical E/editorial SE STATUS: O/open V	G/general V/written C/close	ed U/unsatisfie	d Z/withdrawn C/ 03 SC 3.9		Page 6 of 18 11/17/2005 6:23:41 PM					

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CI 05	SC 5.6, a), 2),	vi)	P 36	L	# 64	C/ 06	SC 6.2.1.1.1	P 4	19 <i>L</i> 1	# 2	
PONNUSV	VAMY, SUBBURA	JAN	Individual			JAMES, L	DAVID V	Individ	lual		
Comment	Type TR	Comme	nt Status D			Comment	Type TR	Comment Status	D		
TGm h capabi capabi capabi 1 or St	has removed the ca ility was added by ility, all the more re ility. Now, and prio tate 3 are unproted	apability of TGh, and s ason to ke r to the intr ted.	802.11 to suppo should remain in the eep it, as there ma roduction of TGw	rt Action frames the standard. Y ay be applicatio all Action frame	s in State 1. This es, this is a unique ons which use this es, whether sent in State	(These apply throughout; the page, sub-clause, and line numbers were put in to bypass the format checker and are only relevant for a small portion of this comment) This document does not conform to the IEEE Style Manual.					
SuggestedRemedy							ple of examples:	int of figures			
Chang Manag	e from vi) Action w gement Action	ithin an IB	SS, action frame	s are Class 1. 7	Γο vi) Spectrum	2) Fi 3) R	igure 118 in TOF b edundant/confusin	preaks across line ng names:			
Proposed	Response	Respons	e Status W			de	estination address,	, DA			
PROPOSED REJECT. The reason for restricting the use of Action frames to class 3 in an infrastructure BSS is to limit the times when a STA must interpret and respond to an Action frame. When associated to an AP, a STA only needs to be responding to action frames from its AP. Requiring that Action frames be Class 1 in all cases leads to a new denial of					frames to class 3 in an nd respond to an Action Jing to action frames ads to a new denial of	 4) Mbit/s ==> Mb/s 5) State machine on #811 not consistent with state machine notation in other 802 specifications 					
service	e attack against a	STA.				Suggeste	dRemedy				
	SC 5.6, a), 2),	vi)	P 36	L	# 54	Confo If nec	orm to the IEEE Streessary, please req	yle Manual. Juest assistance from	the IEEE Editors.		
POININUSV		JAN	Individual			Proposed Response Response Status W					
Comment TGm h	<i>Type</i> TR has removed the ca	<i>Commer</i> apability of	nt Status D			PROF projec	vith the IEEE-assigned al.				
Suggested Chang	<i>IRemedy</i> je from					Chan Mbit/s	ge abbreviation for s or Mb/s).	r "megabits per secor	nd" to the correct s	pelling throughout (either	
Proposed PROP	Response OSED REJECT. E	<i>Respons</i> Entry error	e Status W on web form.			There	is no requirement	t for state machine fo	rmat consistency t	between 802 documents.	
CL 05	SC 57		P 29	1	# 52	C/ 07	SC 7.1.3.1.9	P	L	# 17	
O'HARA, F	ROBERT		Individual	L	# 55	Comment	NS, ADRIAN P	Individ Comment Status	nual D		
Comment	Туре Е	Comme	nt Status D			"Only	WEP is allowed a	s the cryptographic e	- ncapsulation algor	rithm for management	
lt seen D4.0	ns that the section - it used to be at 5.	heading fo 9, but now	or "Reference Mo	del" was delete Jram are conca	d between D3.0 and tenated with section 5.7	frame Prote	es of subtype Authorited Frame Field.	entication." This state	ement doesn't relat	e to the interpretationof the	
entitle	d "Differences betw	veen ESS	and IBSS LANs".	I think the sect	tion heading should be	Suggeste	dRemedy				
restore	ed bluow it won) be	9.8).				Move	to an appropriate	section under the for	mat of the authent	ication frame.	
Suggested	Remedy				at a set is a s	Proposed	Response	Response Status	w		
insert	the correct heading	y and sect	ion number, renu	mper subseque	ent sections.	PROF	POSED ACCEPT I	N PRINCIPLE.			
Proposed	Response	Respons	e Status W			5.1.4					
PROP the ne	OSED ACCEPT. w 5.8 are correctly	In additior linked and	to the suggested that current refe	d remedy, ensu rences to 5.8 a	re that any references to re changed to 5.9.	Delet in a d	e the last sentence ata frame" to "Whe	e of the clause. Char en the Protected Frar	nge "When the Pro me field is set to 1'	tected Frame field is set to 1	
TYPE: TR/	technical required	ER/editor	ial required GR/g	general required	d T/technical E/editorial G/g	eneral		0 1 -	_		
COMMEN SORT ORI	T STATUS: D/disp DER: Clause, Su	atched A/a bclause, p	accepted R/rejectoage, line	ted RESPO	NSE STATUS: O/open W/wr	itten C/close	d U/unsatisfied 2	Z/withdrawn C/ 0 SC 7	7 .1.3.1.9	Page 7 of 18 11/17/2005 6:23:42 PM	

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CI 07 SC 7.3.2 O'HARA, ROBERT Ind	P 80 lividual	L	# 28	CI 08 STEPHEN	SC 8.2.1.2 S, ADRIAN P	<i>P</i> Individual	L	# 18
Comment Type T Comment Stat As all bits in the Capability Information Figures of new capabilities must be defined. this.	tus D eld are now con An information e	sumed, a new p element is the pe	ace to identify the erfect place for	Comment Footno Suggested	<i>Type</i> E ite to Figure 86 se <i>Remedy</i>	Comment Status D eems out of place.		
SugaestedRemedy				If it's n	ecessary to say th	nis, put it in a section on docu	ument convention	IS.
Add a new "Extended Capability Informat to the full length of an IE.	ion Field" IE tha	t is a bit field ca	babile of extension	Proposed I PROP	Response OSED ACCEPT.	Response Status W		
Proposed Response Response State PROPOSED ACCEPT. Incorporate text of format of the	us W from 11/05-xxx f	rom Kapil Sood.	Change the	The foo Delete	otnote is not a new	cessary statement.		
CI 08 SC 8.1.3 DHARANIPRAGADA, KALYAN R Ind	P 113 lividual	L 1	# 74	<i>CI 08</i> Dharanif	SC 8.3.2.4 PRAGADA, KALY	P 129 AN R Individual	L 1	# 76
Comment Type G Comment Stat Usage of "a RSNA" and "an RSNA" is inc SuggestedRemedy Use "a RSNA"	tus D consistent			Comment The sta MIC fa GTK sl variabl	Type T andard requires th ilures in 60s must nould be changed e to configure the	Comment Status D ne rate of MIC failures < 2 pe disable all receptions using (renegotiated) using a 4-wa rate and set the default to 2	er 60 seconds! i.e. TKIP for 60s. In a ay handshake. Ca /60	STA/Aps detecting 2 addition the PTK and an we have a MIB
Proposed Response Response State	us W			Suggested	Remedy			
PROPOSED ACCEPT. The text is to ma	de consistent.			Introdu	ice dot11RSNAT	KIPCounterMeasureRate = 2	(default) in dot11	PrivacyTable
C/ 08 SC 8.1.3 DHARANIPRAGADA, KALYAN R Ind Comment Type G Comment State words "to protect" are redundant SuggestedRemedy It programs the agreed-upon temporal ke	P 113 lividual tus D ys and cipher su	L 6	# 75	Proposed I PROP securit must re In orde carried	Response OSED REJECT. y objectives of the equire a certain, la r to make the suc out at a rate no l	Response Status W The reason the rate of 2 per e Michael MIC, i.e., to protect arge amount of time to moun ccessful attack time large end ess than that specified in the	60s is chosen is t against frame fo at a successful att ough, the counter e standard.	that to obtain the orgeries, an attacker ack against the MIC. measures must be
Proposed Response Response State	us W							
PROPOSED ACCEPT. Delete "to protec	et" from the first s	sentence of 8.1.	3 a) 6).					

 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
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CI 08 SC 8.3.2.4 DHARANIPRAGADA, KALY	P 129 AN R Individual	L 1	# 77	<i>CI</i> 08 MYLES, AN	SC 8.5.1.1 DREW F	<i>P</i> Individual	L	# 84	
Comment Type T TKIP countermeasures	Comment Status D optional/configurable?			Comment T There is	ype TR some concern	Comment Status X n that SHA-1 is not sufficiently	strong as part o	f the PRF for the long	
SuggestedRemedy Introduce dot11RSNATh Proposed Response	<pre>KIPCounterMeasures = TRU Response Status W</pre>	E (default) in dot	11PrivacyTable	SuggestedF Make a SHA-25	Remedy modification ir 6 as part of the	7.3.2.25.2 , 8.5.1.1 and possi PRF instead of SHA-1 in a ba	bly other clause	s to allow the use of tible way.	
PROPOSED REJECT. configurable. To protect amount of time to mount successful attack time to	The use of countermeasures t against frame forgeries, an t a successful attack against are enough the countermea	s in TKIP cannot attacker must re the MIC. In orde	be made quire a certain, large er to make the arried out at a rate po	In doing so other changes could also be made to the PRF to make precomputation attacks harder and prefix attacks impossible.					
Iess than that specified i C/ 08 SC 8.3.3.3.3	n the standard.	L	# 73	<i>Proposed R</i> The cor backwa	<i>esponse</i> nmenter is ask rd compatible	Response Status O ed to provide the details on ho way".	w this can be a	ccomplished "in a	
SHVODIAN, WILLIAM M Comment Type E Some of the figures are	Individual Comment Status D very clear visually like Figure	- es 100 and 101.	Others are quite	C/ 08 O'HARA, R(<i>Comment T</i>	SC 8.5.1.2 DBERT WPe T	P 156 Individual Comment Status D	L 2	# 29	
be easier to read and loo quality.	ok more professional if all of	the figures had t	he same level of high	the form stating	nula PMK=L(P hat PMK is the	TK,0,256) is incorrect. The tex e first 256 bits of the AAA key.	t is clearly		
SuggestedRemedy Imporve the visual qualit	ty of the figures.			SuggestedF Replace	Remedy e "PTK" with "A	AA key".			
Proposed Response PROPOSED ACCEPT. common, high quality for	Response Status W The editor is directed to detern the figures.	ermine a method	to maintain a	Proposed R PROPC	esponse ISED ACCEP1	Response Status W			
C/ 08 SC 8.4.1.2.1 O'HARA, ROBERT	P 145 Individual	L	# 30	C/ 08 STEPHENS	SC 8.5.1.2 , ADRIAN P	P 156 Individual	L 2	# 16	
Comment Type E The reference to section	Comment Status D 5.5 is incorrect, after 5.5 wa	is changed to 5.6	Э.	Comment Type TR Comment Status D (Submitted on behalf of Jesse Walker, TGi edior) Line 2 says: "PMK < L(PTK, 0, 256)" This was an editorial error with normative consequences					
suggesteakemeay change "5.5" to "5.6". Proposed Response	Response Status W			SuggestedF Replace PMK <-	Remedy e the quoted te - L(AAA Key, 0	xt with:), 256)			
PROPOSED ACCEPT.				Proposed R PROPC	esponse SED ACCEP1	Response Status W			

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
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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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 Clause, Subclause, page, line
 SC
 8.51.2
 11/17/2005 6:23:42 PM

Submission

C/ 08 SC 8.5.7.2	P 188	L 37	# 1	C/ 09 Moreto	SC SC	9.6		P 222	L	# 82
				MORETO			~			
Comment Type E	Comment Status D			Comment	Type	TR	Commer	nt Status D		and a star of the AD
EAPOL mispelled in de	eminition of G I meoutCtr as EA	PIOL.		As far will no	as i ca it know	n see, an a the entend	Authentication	of the STA (well)	io de sent at a Inless it's save	d a previous Probe
SuggestedRemedy edit				reques	st). An <i>i</i> bly mor	AP should e of an iss	be allowed ue once 11k	to use the rate at starts using clas	which the STA is 1 action fram	sent the frame. This is es.
Proposed Response	Response Status W			Suggested	dRemed	dy				
PROPOSED ACCEPT				Give e	explicit r	rules for th	e rates at w	hich a managem	ent frame can b	e sent if the supported
C/ 09 SC 9.2.3.4	P 202 Individual	L	# 81	rate set is not known. That is, either a basic rate, or the rate of the last management fram sent by the recipient. In fact, maybe this should be extended to class 1 data frames wher the Extended Rate Set is not known?						
Comment Turne TD	Commont Status V			Proposed	Respor	nse	Response	e Status W		
There are changes to I	EIES behaviour, but these cor	tradict changes	mada in the 802 11a	PROP	OSED	ACCEPT.				
ammendment.		inadici changes		In the		hara tha a	upported rot	a act of the read	ving CTA is not	known the transmitting
SuggestedRemedv				STA s	hall trai	nsmit at a	rate selected	d from the basic i	ate set or a rate	e at which the
Incorporate the 802.11	e ammendment into this revis	ion		transn	nitting S	STA has re	eceived a fra	me from the rece	iving STA.	
Proposed Response	Response Status 0			C/ 10	SC	10.3.20.1	3	P 289	L	# 52
double check this secti	ion after integration of 11e integration	o the base revisi	on draft.	O'HARA, F	ROBER	T	-	Individual		
				Comment	Type	т	Commer	nt Status D		
C/ 09 SC 9.2.5.4	P 206	L	# 79	This s	ection i	s about se	ending EAPC	DL frames, not Mi	chael MIC failu	res. This comment was
MORETON, MIKE	Individual			first er	ntered i	n LB75, bi	ut I goofed in	the section num	ber (entered it	as 10.3.20.1.1 instead
Comment Type TR	Comment Status D			of 10.3	3.20.1.3	3) but had	the line num	ber on the page	correct. There	were two places on the
A STA should update in otherwise there would already the requirement	ts NAV if it receives a broadca be no point in sending one. W	ast frame with a /hile it could be a	non-zero duration - argued that this is	submi resolu	tted this	s commen readsheet,	t again with and believe	the corrected sec it never was reg	tion number. I distered as a con	don't find it in the mment in LB76.
		1111131011, 30 11 3 1	Jest clarified.	Suggested	Remed	dy				
Rephrase the first sent	tence as: "STAs receiving a v	alid frame shall ι	update their NAV with	Chang EAPO	ge sente L-Key f	ence to: Th	nis primitive end	is generated by t	he SME when t	he SME has an 802.1X
but only when the new	NAV value is greater than the	e current NAV va	alue and only when the	Proposed	Respor	nse	Response	e Status W		
frame is not	5 1 1 1		, ,	PROP	OSED	ACCEPT.				
addressed to the unica	ast address of the receiving S	ГА."			0010					
Proposed Response	Response Status W									
PROPOSED ACCEPT	IN PRINCIPLE.									
Replace the first sente STAs receiving a valid Duration/ID field for all value, except those wh	nce in 9.2.5.4 with the followir frame shall update their NAV frames where the new NAV v here the RA is equal to the rec	ng: with the informa alue is greater t eiving STA's M/	ation received in the han the current NAV AC address.							

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

11/17/2

C/ 10

SC 10.3.20.1.3

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C/ 11 SC 11.1.3 P 308 L # 8	C/ 11 SC 11.1.3.2.1 P 308 L # 78					
STEPHENS, ADRIAN P Individual	MORETON, MIKE Individual					
Comment Type TR Comment Status D	Comment Type TR Comment Status D					
"A STA may start its own BSS without first scanning for a BSS to join". One of the issues I have with the structure of the document is that it claims that the SME is outside the appendix the appendix part to a structure of the document is that it claims that the SME.	It's implicit that the BSSID field is ignored in received Probe request frames, but it would make things clearer if this was explicitly stated.					
However it also makes normative statements that only make sense as specification for an	SuggestedRemedy					
SME. This statement is an example of that, hopefully I'll notice and report a few more. Because	Explicitly say that the BSSID field is ignored even when the Receiver Address is a broadcast address.					
control of sequencing of scanning/joining/starting is under control of the SME, this statement should read: "The SME of a STA may start its own BSS"	Proposed Response Response Status W					
Suggested Pomody	PROPOSED REJECT.					
Add a section containing statements for the SME and move the amended statement there.	The requested change directly conflicts with 11.1.3.2.2 c). However, the text does need clarification					
Proposed Response Response Status W	ournouton.					
PROPOSED ACCEPT IN PRINCIPLE.	Change the first sentence of 11.1.3.2.1: STAs, subject to criteria below, receiving Probe Request frames shall respond with a probe					
Delete the sentence.	response only if					
C/ 11 SC 11.1.3.2.1 P L # 10	a) the SSID in the probe request is the wildcard SSID or matches the specific SSID of the STA, and					
Comment Type TR Comment Status D	b) the BSSID field of the probe request is the broadcast address or matches the BSSID of the STA, and					
"In each BSS there shall be at least one STA&"	c) the DA field is the broadcast address or matches the MAC address of the STA.					
This is an example of another class of generic error that is, unfortunately, far too common in this document - wrong use of "shall".	C/ 11 SC 11.2.1.1 P L # 11					
"Shall" introduces a normative requirement on the implementer. In this example, shall	STEPHENS, ADRIAN P Individual					
cannot introduce a normative requirement on the implementer because the BSS consists of multiple STA from multiple implementers	Comment Type T Comment Status D					
It should be possible to trace most "shall" statements to PICS entries.	How big is "ProbeDelay"? Answer: it's not specified.					
SuggestedRemedy	This creates a problem because later amendments (e.g. 802.11n) may result in long sequences of frames that are not PHY compatible. The legacy system waits for a					
I recommend that the document be scanned and each occurance of "shall" (there are 2258	"ProbeDelay" for a valid legacy header. A protection solution for the new system is to					
of them) be validated. In this example, what it meant to say: "The procedures defined in this subclause ensure that is each BCs there is at least and STA?"	ensure the transmission of a valid legacy frame every ProbeDelay - but without knowing what this value is, there is no way this can be achieved.					
	SuggestedRemedy					
Proposed Response Response Status W PROPOSED ACCEPT. The editor is to identify those uses of "shall" that are not normative	Recommend that ProbeDelay is given a value in this document. Recommend suitable value is largest 802.11e TXOP duration.					
and replace with descriptive language.	Proposed Response Response Status W					
	PROPOSED REJECT.					
	ProbeDelay is a parameter passed to the MLME by the SME. The value for this parameter is outside the scope of the standard.					

 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
 C/ 11
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 SC 11.2.1.1
 11/17/2005 6:23:42 PM

Submission

November 2005

IEEE P802.11REV-ma D5.0 - WLAN Revision Comments

C/ 11 STEPHENS	SC 11.2.1.4 S, ADRIAN P	P Individual	L	# 13	C/ 11 STEPHEN	SC 11.2.1.9 S, ADRIAN P	<i>P</i> Individual	L	# 14
Comment 7 I wonde resultin Suggested/ Add no STA ha	Type T er if it's worth add ng from an indicat Remedy te something like as changed powe	Comment Status D ling a comment here on pres- ion that a STA has changes :: "An AP that moves frames r-saving state should preser	serving ordering power-saving to and from its ve the relative	g when moving frames state. buffer as learns that a order of those frames."	Comment "The A an exc period MLME reques " sha Oh dea	Type TR P shall have an essive of time. That fu ASSOCIATE. it primitive of the all have a function ar, oh dear, oh c	Comment Status D a aging function to delete buffer nction shall be based on the Li e STA for which the traffic is bu on" " shall be based on"	ed traffic wher stenInterval pa iffered."	n it has been buffered for arameter of the
PROPC Comme address	DSED REJECT. enter to bring this s this topic.	comment again, if incorpora	ation of text from	m 802.11e does not	Suggested Either implem	Remedy turn this into a r nentation can be	ecommendation, or provide en e constructed.	ough specifica	ation that a compliant
C/ 11 STEPHENS	SC 11.2.1.4 S, ADRIAN P	P Individual	L	# 1 <u>2</u>	Proposed PROP	OSED ACCEPT	Response Status W		
Comment 7	Type TR	Comment Status D			AP agi	ng function" in f	the third sentence.	ace The AP a	ging function with Any
"An AP shall have an aging function to delete pending traffic when it is buffered for an excessive time period." I'm not sure this normative requirement is necessary. It is certainly not testable without					C/ 11 O'HARA, R Comment	SC 11.3 COBERT	P 319 Individual Comment Status D	L	# [31
Suaaestedl	g what excessive Remedv	e means.			The ret	ference to secti	on 5.5 is incorrect, after 5.5 wa	s changed to s	5.6.
Recom	mend turning this tively define the a	s into an informative note. ageing algorithm so that con	npliance can be	e tested.	Suggested change	Remedy e "5.5" to "5.6".			
Proposed F PROPC	Response DSED ACCEPT.	Response Status W			Proposed I PROP	Response OSED ACCEP1	Response Status W		
"An AP	can delete buffe	red frames for implementation	on dependent r	easons, including the					

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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use of an aging function and availability of buffers."

November 2005

C/ 11	SC 11.3	P 320	L	# 25
O'HARA,	ROBERT	Individual		

Comment Type G Comment Status D

The current standard defines a number of values for result codes. Very few of these values have definitions for their use. Define how a STA is to respond upon receipt of particular values of the result code in a disassociation frame and when an AP is to use them.

SuggestedRemedy

Append the following subclauses after 11.3.4:

11.3.5 STA disassociation procedure

Upon receipt of a Disassociation frame, a STA shall operate as follows:

a) The MLME shall issue an MLME-DISASSOCIATE.indication with the ReasonCode parameter set to the value of the Reason Code received in the Disassociation frame.
b) If the Reason Code indicates a configuration or parameter mismatch as the cause of the disassociation, the STA shall not attempt to associate or reassociate with the AP sending the Disassociation frame, until the configuration or parameter mismatch has been corrected.

c) If the Reason Code indicates the STA was disassociated for a reason other than configuration or parameter mismatch, the STA shall not attempt to associate or reassociate with the AP sending the Disassociation frame until it has attempted to association or reassociate with at least one other AP or a period of 2 seconds has elapsed.

11.3.6 AP disassociation procedure

Upon receipt of an MLME-DISASSOCIATE.request, an AP shall use the following procedure when disassociating an STA:

a) The AP shall send a Disassociation frame to STA being disassociated.

b) The AP shall indicate a specific reason for the disassociation in the Reason Code field of the Disassociation frame. If any Reason Code value other than the unspecified reason Reason Code from Table 19 of clause 7.4.1.7 is appropriate for indicating the reason for the disassociation, the AP shall use that Reason Code value. The use of the unspecified reason value shall be used to indicate the STA was disassociated for a reason unrelated to all defined Reason Code values.

Proposed Response Response Status W

PROPOSED ACCEPT.

The commenter has identified the wrong clause. The correct clause is 11.4.

Append the following subclauses after 11.4.5:

11.4.6 Non-AP STA disassociation receipt procedure

Upon receipt of a Disassociation frame, a STA shall operate as follows:

a)The MLME shall issue an MLME-DISASSOCIATE.indication with the ReasonCode parameter set to the value of the Reason Code received in the Disassociation frame. b)The state variable for the AP shall be set to State 2 if and only if it was not State 1. c)If the Reason Code indicates a configuration or parameter mismatch as the cause of the disassociation, the STA shall not attempt to associate or reassociate with the AP sending the Disassociation frame, until the configuration or parameter mismatch has been corrected. d)If the Reason Code indicates the STA was disassociated for a reason other than configuration or parameter mismatch, the STA shall not attempt to associate or reassociate with the AP sending the Disassociation frame until a period of 2 seconds has elapsed.

The STA's SME shall delete any PTKSA and temporal keys held for communication with the indicated STA

by using the MLME-DELETEKEYS.request primitive (see 8.4.10) and by invoking MLME-SETPROTECTION.

request(None) before invoking the MLME-DISASSOCIATE.request primitive.

11.4.7 AP disassociation initiation procedure

Upon receipt of an MLME-DISASSOCIATE.request, an AP shall use the following procedure when disassociating an STA:

a)The AP shall send a Disassociation frame to STA being disassociated. b)The AP shall indicate a specific reason for the disassociation in the Reason Code field of the Disassociation frame. If any Reason Code value other than the unspecified reason Reason Code from Table 19 of clause 7.4.1.7 is appropriate for indicating the reason for the disassociation, the AP shall indicate that Reason Code value. The use of the unspecified reason value shall indicate the STA was disassociated for a reason unrelated to all defined Reason Code values.

c)The state variable for the STA shall be set to State 2. d)The SME will update the DS.

The STA's SME shall delete any PTKSA and temporal keys held for communication with the indicated STA by using the MLME-DELETEKEYS.request primitive (see 8.4.10) and by invoking MLME-SETPROTECTION.

request(None) upon receiving a MLME-DISASSOCIATE.indication primitive.

TYPE: TR/techni	cal required ER/edit	torial require	d GR/genera	I required T/	technical	E/editorial	I G/genera	I			~ ~
COMMENT STA	TUS: D/dispatched	A/accepted	R/rejected	RESPONSE	STATUS:	O/open	W/written	C/closed	U/unsatisfied Z	/withdrawn	C/ 11
SORT ORDER:	Clause, Subclause	, page, line									SC 11.3

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Submission

C/ 11	SC 11.3.1	P 319	L	# <u>2</u> 1	C/ 11	SC 11.3.2	Р	L	# 15	
O'HARA, R	OBERT	Individual			STEPHE	NS, ADRIAN P	Individual			

Comment Type T Comment Status D

The current standard defines a number of values for status codes . Very few of these values have definitions for their use. Define how a STA is to respond upon receipt of particular values of status codes

SuggestedRemedy

November 2005

Append the following text to clause 11.3.1 c):

The Status Code returned in the Association Response frame indicates the cause of the failed association attempt. Any misconfiguration or parameter mismatch, e.g., data rates required as Basic Rates that the STA does indicate as supported in the Supported Rates information element, shall be corrected before the STA attempts a subsequent association with the AP. If the Status Code indicates the association failed because of a reason that is not related to configuration, e.g., the AP is unable to support additional associations, the STA shall not attempt to associate with the same AP if other APs are available, until the STA has attempted to associate with at least one other AP or a period of 2 seconds has elapsed.

Proposed Response Response Status W PROPOSED ACCEPT.

OPOSED ACCEPT.

The commenter has identified the incorrect clause. The correct clause is 11.4.1.

Append the following text to clause 11.4.1 c):

The Status Code returned in the Association Response frame indicates the cause of the failed association attempt. Any misconfiguration or parameter mismatch, e.g., data rates required as Basic Rates that the STA did not indicate as supported in the STA's Supported Rates information element, shall be corrected before the SME issues an MLME-ASSOCIATE.request for the same AP. If the Status Code indicates the association failed because of a reason that is not related to configuration, e.g., the AP is unable to support additional associations, the SME shall not issue an MLME-ASSOCIATE.request for the same AP, until a period of at least 2 seconds has elapsed.

STEPHENS, ADRIAN P		Individual
Comment Type	TR	Comment Status X
"The STA's S	ME shal	l delete any PTKSA&"

See also my earlier comment. We need to put this in a section containing normative requirements on the SME.

SuggestedRemedy

Add a section containing statements for the SME and move the statement there. Recommend scanning for SME and doing likewith with any other similar statements.

Proposed Response Response Status **O**

Need to discuss with Jesse Walker.

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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November	2005
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C/ 11	SC 11.3.2	P 319	L	# 22	
O'HARA, RO	BERT	Individual			

Comment Type T Comment Status D

The current standard defines a number of values for status codes . Very few of these values have definitions for their use. Define how a STA is to respond upon receipt of particular values of status codes.

SuggestedRemedy

Append the following text after 11.3.2 c):

d) When the status value of the association is not successful, the AP shall indicate a specific reason for the failure to associate in the Status Code of the Association Response frame. If any Status Code value from Table 20 in clause 7.3.1.9 is an appropriate reason for the failure to associate, the AP shall use that Status Code value. The use of the unspecified reason value of the Status Code shall be used to indicate the association failed for a reason that is unrelated to every other defined Status Code value.

Proposed Response Response Status W PROPOSED ACCEPT.

The commenter has not identified the correct clause. The correct clause is 11.4.2.

Append the following text after 11.4.2 c):

d) When the status value of the association is not successful, the AP shall indicate a specific reason for the failure to associate in the Status Code of the Association Response frame. If any Status Code value from Table 20 in clause 7.3.1.9 is an appropriate reason for the failure to associate, the AP shall indicate that Status Code value. The use of the unspecified reason value of the Status Code shall indicate the association failed for a reason that is unrelated to every other defined Status Code value.

Renumber subsequent items in the list in 11.4.2.

C/ 11	SC 11.3.3	P 320	L	# 23
O'HARA,	ROBERT	Individual		

Comment Type T Comment Status D

The current standard defines a number of values for status codes. Very few of these values have definitions for their use. Define how a STA is to respond upon receipt of particular values of the status code.

SuggestedRemedy

Append the following text to 11.3.3 c):

The Status Code returned in the Reassociation Response frame indicates the cause of the failed reassociation attempt. Any misconfiguration or parameter mismatch, e.g., data rates required as Basic Rates that the STA does indicate as supported in the Supported Rates information element, shall be corrected before the STA attempts a subsequent reassociation with the AP. If the Status Code indicates the reassociation failed because of a reason that is not related to configuration, e.g., the AP is unable to support additional associations, the STA shall not attempt to reassociate with the same AP if other APs are available, until the STA has attempted to reassociate with at least one other AP or a period of 2 seconds has elapsed.

Proposed Response Response Status W PROPOSED ACCEPT.

The commenter has identified the incorrect clause. The correct clause is 11.4.3.

Append the following text to clause 11.4.3 d):

The Status Code returned in the Reassociation Response frame indicates the cause of the failed reassociation attempt. Any misconfiguration or parameter mismatch, e.g., data rates required as Basic Rates that the STA did not indicate as supported in the STA's Supported Rates information element, shall be corrected before the SME issues an MLME-REASSOCIATE.request for the same AP. If the Status Code indicates the reassociation failed because of a reason that is not related to configuration, e.g., the AP is unable to support additional associations, the SME shall not issue an MLME-REASSOCIATE.request for the same AP, until a period of at least 2 seconds has elapsed.

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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C/ 11	SC 11.3.4	P 320	L	# 24	C/ 11 SC 11.5.	.1 P	L	# 67	
O'HARA,	ROBERT	Individual			MYLES, ANDREW F	Individual			
Commer	nt Type T	Comment Status D			Comment Type TR	Comment Status D			

The current standard defines a number of values for status codes. Very few of these values have definitions for their use. Define how a STA is to respond upon receipt of particular values of the status code.

SuggestedRemedy

November 2005

Append the following text after 11.3.4 c):

d) When the status value of the reassociation is not successful, the AP shall indicate a specific reason for the failure to reassociate in the Status Code of the Reassociation Response frame. If any Status Code value other than the unspecified reason Status Code value from Table 20 in clause 7.3.1.9 is an appropriate reason for the failure to associate, the AP shall use that Status Code value. The use of the unspecified reason value of the Status Code shall be used to indicate the reassociation failed for a reason that is unrelated to every other defined Status Code value.

Proposed Response Response Status W PROPOSED ACCEPT.

The commenter has not identified the correct clause. The correct clause is 11.4.4.

Append the following text after 11.4.4 d):

e) When the status value of the reassociation is not successful, the AP shall indicate a specific reason for the failure to reassociate in the Status Code of the Reassociation Response frame. If any Status Code value from Table 20 in clause 7.3.1.9 is an appropriate reason for the failure to reassociate, the AP shall indicate that Status Code value. The use of the unspecified reason value of the Status Code shall indicate the reassociation failed for a reason that is unrelated to every other defined Status Code value.

Renumber subsequent items in the list in 11.4.4.

C/ 11 SC 11.4 P 320 O'HARA, ROBERT Individual # 32

Comment Type E Comment Status D

The reference to section 5.5 is incorrect, after 5.5 was changed to 5.6.

SuggestedRemedy

change "5.5" to "5.6".

Proposed Response Response Status W PROPOSED ACCEPT.

SORT ORDER: Clause, Subclause, page, line

Comment Type TR

The text defines association based on transmit power capability However, no use has ever been demonstrated for this feature and few if any implmenentations provide it for any useful purpose

SuagestedRemedv

Delete all text related to association based on transmit power capability

Proposed Response Response Status W

PROPOSED REJECT. The commenter does not provide a compelling reason for deprecating this function. It is not proven that no use has ever been demonstrated for this feature. It is to soon to determine that no use will be found for this feature.

C/ 11	SC 11.5.3	Р	L	# 68
MYLES, AND	REW F	Individual		
Comment Typ	e TR	Comment Status D		

The text defines adaption of transmit power

However, no use has ever been demonstrated for this feature in relation to DFS and few, if any, implmenentations provide it for any useful purpose

SuggestedRemedy

Delete all text related to adaption of transmit power, and allow 11k and 11v to define new more appropriate features

Proposed Response Response Status W

PROPOSED REJECT. The commenter does not provide a compelling reason for deprecating this function. It is not proven that no use has ever been demonstrated for this feature. It is to soon to determine that no use will be found for this feature.

The commenter is urged to work with 802.11 task groups k and v to define new, more appropriate features and to delete this feature at that time.

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

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C/ 11 SC 11.5.3

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Submission

IEEE P802.11REV-ma D5.0 - WLAN Revision Comments

C/ 11	SC 11.6.1	Р	L	# 69	C/ 11	SC 11.6.7.2	2 P	L	# 65
MYLES, A	NDREW F	Individual			MYLES, A	NDREW F	Individual		
Comment	Type TR	Comment Status D			Comment	Type TR	Comment Status X		
The te Howe any in	ext defines assoc ver, no use has e nplmenentations	iation based on supported cha ever been demonstrated for th provide it for any useful purpo	annels iis feature in re ose	elation to DFS and few if	The D have I There	FS channel cha little value in the is no know imp	anging facilities for IBSS represented as a majority of cases and vertice and the second state of this feature.	esent a very com vill not work in ma	plex set protocols that any circumstances.
Suggestee	dRemedy				Suggestee	dRemedy			
Delete	e all test related t	o association based on suppo	orted channels		Delete	e all text related	to selecting a new channel in	n an IBSS	
Proposed	Response	Response Status W			Proposed	Response	Response Status 0		
PROF depre	POSED REJECT.	The commenter does not proof. It is not proven that no us	ovide a compe e has ever bee	elling reason for en demonstrated for this feature	Andre to the	w Myles, the fo document.	rmer editor of 802.11h, will de	etermine the exa	t scope of this change
leatur					C/ 17	SC 17.1.2	P 437	L 1	# 4
C/ 11	SC 11.6.3	Р	L	# 66	LANDT, JI	EREMY A	Individual		
MYLES, A	NDREW F	Individual			Comment	Type G	Comment Status D		
Comment	Type TR	Comment Status D			There	is no section 5	.9 as referenced.		
The te This re	ext references ET eference is Europ	SI EN 301 893.			There	are two page 4	37s.		
Suggestee	dRemedy				Suggestee	dRemedy			
Remo	ve all references	to ETSI EN 301 893			Repla	ce '5.9' with '5.7	" or remove the reference, co	prrect page numb	ering
Proposed	Response	Response Status W			Proposed	Response	Response Status W		
PROF refere	POSED ACCEPT inces (clause 2) a	IN PRINCIPLE. Remove ET and move to the bibliography.	SI EN 301 893	from the normative	PROF	POSED ACCEP	T IN PRINCIPLE. The new obering.	correct reference	is 5.8. The editor is to
C/ 11	SC 11.6.6	Р	L	# 70	C/ A	SC A.4.4.1	P 569	L	# 33
MYLES, A	NDREW F	Individual			O'HARA, I	ROBERT	Individual		
Comment	Type TR	Comment Status D			Comment	Туре Е	Comment Status D		
The te	ext defines a com	plex measurement request a	nd response m	echanism.	In iten	n PC1.1 The ret	ference to section 5.5 is incor	rrect, after 5.5 wa	is changed to 5.6.
The moos	nechanism is not	required for DFS or TPC purp	ooses. It is clea	arly not sufficient for the	Suggestee	dRemedy			
Currenter		s given that TTK is currently to	sueming it		chang	je "5.5" to "5.6".			
Suggested	arkemeay	a magaziramont request and	rooponoo ond	allow 11k to define more	Proposed	Response	Response Status W		
appro	priate features	o measurement request and r	esponse, and	allow TTK to define more	PROF	POSED ACCEP	T.		
Proposed	Response	Response Status W							
PROF this ch	POSED REJECT.	The commenter is urged to endment.	work with 802.	11 task group k to make					

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

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

 SORT ORDER:
 Clause, Subclause, page, line
 C/
 A
 SC
 A.4.4.1

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Submission

IEEE P802.11REV-ma D5.0 - WLAN Revision Comments

C/ A SC A.4.4.1 O'HARA, ROBERT	P 571 Individual	L	# 34	C/ N STEPHEN	SC N.1 S, ADRIAN P	P Individual	L	# 5			
Comment Type G	Comment Status D			Comment	Туре Е	Comment Status X					
In item PC14.1, The r	eference to section 5.5 is incor	rect, after 5.5 w	as changed to 5.6.	The architecture picture is confusing because it has the same SAP at multiple layers. Also the multiplicities of the entities are not clear.							
SuggestedRemedy				Suggested	Remedy						
Proposed Response PROPOSED ACCEP	Response Status W			Recommend drawing with a wide portal layer at the top below which are multiple portals and multiple AP stacks. This emphasises the role of the DS in distribution and positions the DS-SAPs at the same level.							
C/ H SC H.6.3 O'HARA, ROBERT	P 950 Individual	L	# 27	Proposed Darwir	Response n to prepare a re	Response Status O esponse					
Comment Type T	Comment Status D			C/ N	SC N.1	Р	L	# 6			
Table H.7 lists some	vectors for testing TKIP encrypt	tion. It would be	9	STEPHEN	S, ADRIAN P	Individual					
nice to also list the source and destination MAC addresses, so that an implementor could walk through the derivation of the the Phase 1 and Phase 2 outputs.				Comment Type E Comment Status X The DS-STA-NOTIFY primitive is probably best viewed as travelling "up the stack" from the AP to the DS.							
The MAC addresses a want to add them to the	are recoverable from the plainten the plainten term the plainten term the table.	ext message, if	we	SuggestedRemedy Change it from a "request" to an "indication"							
SuggestedRemedy Add the MAC address	ses to the table.			Proposed							
Proposed Response PROPOSED ACCEP	Response Status W			Darwii	nto prepare a re	sponse					
C/ H SC H.7.1.1 O'HARA, ROBERT	P 954 Individual	L	# 26								
Comment Type E The caption for Table	Comment Status D H.14 is incorrect.										
SuggestedRemedy change the caption to	"Sample derived CCMP tempo	oral key (TK)"									
Proposed Response	Response Status W										

PROPOSED ACCEPT.

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

C/ N

SC N.1

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