IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

Cl 00 SC 0 Raissinia, Ali	P 0	L 0	MyBallot # 433	<i>CI</i> 00 Hunter, D	SC Bookmar avid	ks 19	P 0	L 0	MyBallot # 544
Comment Type ER 0	Comment Status X			Comment Why o	<i>Type</i> ER defining all the oth		t Status X and not "ERP"?	•	
SuggestedRemedy 0				S <i>uggeste</i> Spell	<i>dRemedy</i> out "Extended Ra	te PHY (ERP)" in title.		
Proposed Response	Response Status O			Proposed	Response	Response	Status O		
C/ 00 SC 17, 18, 19 Godfrey, Tim	P 0	L 0	MyBallot # 628	<i>CI 00</i> Kumar, R	SC Compette ajneesh	e Doc	P 0	L 0	MyBallot # 599
Groups in the main title I "common names" for the contents or PDF bookma <i>SuggestedRemedy</i> For example: "17. 802.11a: Orthogona GHz band"	line for clauses 17, 18, and ese PHYs with the appropria arks.	19. That wo ate clause w exing (OFDI	when viewing the table on	Corre <i>Suggeste</i> Enha	eft of every page ctions, Clarificatio	Fop left of mo	ments". Spelling		
"19. 802.11g: ERP spec Proposed Response				Liu, Chan Comment	gwen		t Status X		
Cl 00 SC Bookmark	ks PO	L 0	MyBallot # 543	Suggeste 0		Decilication to	1 2.46HZ IS NOL	Included ?	
Comment Type ER Revision misspelled "Re	Comment Status X			Proposed	Response	Response	Status O		
SuggestedRemedy Use word processor that	t spellchecks Bookmarks.								
Proposed Response	Response Status O								

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 1 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:28:59 AM
 C/ 00
 SC General

 SORT ORDER:
 Clause, Subclause, page, line
 C/ 00
 SC General

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 00 SC G Williams, Richard	ieneral	P 0	LO	MyBallot # 615	C/ 00 LEMBERG	SC Gene SER, URIEL	eral	F	0	L 0	MyBallot # 396
51		Comment Status X			0	atory related	requir		ided in t	he document i	in noncosistant way, and
SuggestedRemedy	,						ted in	two different loca	tions.		
Change 'Revisi	in' to 'Revisi	on'.			Suggested			C			(
Proposed Respons	ie ł	Response Status O			having	g all in annex	l and	reference to this	point fro	m other parts	transmit power for example of the document
C/00 SC G	eneral	P 0	LO	MyBallot # 338	Proposed	Response		Response Statu	s O		
Hillman, Garth Comment Type	E	Comment Status X			C/ 00 Palm, Ster	SC Gene	eral	F	0	LO	MyBallot # 244
Well, congratul finally consolida SuggestedRemedy Keep up the go	ated.	EE 802.11. It is quite imp	ressive (and	lengthy) to see this standard		mplementor v les no guidar	vished	Comment State d to implement an to which clauses	802.11		only product, this document /ant.
Proposed Respons	ie ł	Response Status O			Clearl	-			es are a	pplicable to th	ne individual amendments of
Kandala, Srinivas	eneral	P0	L 0	MyBallot # 395	PROF		ents (2005 is		EE rules require that the is are not indicated in the
Since Tge draft and the chance	t has been s as of anothe	r amendment approved i	n the next 2	e (see comment on clause 5) years is very close to 0, I n Tge gets rolled in this cycle	Cl 00 Stephens, Comment	SC Gene Adrian		F Comment State	0 Is X	L 0	MyBallot # 34
SuggestedRemedy	,				Please	e do a spell o	heck.	There are multip	le typos	that will be de	etected in this way.
As the editor of amendment is			od consciend	e on this unless the Tge	Suggested Spello	-					
to a standard. PAR allowed fo	EJECT. IEI As 802.11e or the inclusi e approval o	is not yet approved, it ca on of amendments appro	innot be inclu oved by the I	de only approved amendment ided. As well, the 802.11ma EEE-SA in a window of six not approved by the IEEE-SA	•	Response		Response Statu	s O		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 2 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed
 U/unsatisfied Z/withdrawn
 5/18/2005
 11:29:00 AM
 C/ 00
 SC Generally

 SORT ORDER:
 Clause, Subclause, page, line
 SC Generally
 5/18/2005
 11:29:00 AM
 C/ 00
 SC Generally

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 00 Stephens,	SC Generally Adrian	P 0	L 0	MyBallot # 71	C/ 00 SC Gen Stephens, Adrian
have o Recon 8.2.3.4 Suggested	are 105 instances different meanings: nmend that only the 4" should be reword <i>IRemedy</i>	"as defined in", "through".		ng "for each". About 6 of thei	its use in section S receiving the PHY be received before only the OFDM PH SuggestedRemedy Add a definition fo
Proposed I 	SC Generally	Response Status O	LO	MyBallot # 532	where it is wrongly Proposed Response Cl 00 SC Gen
Comment The af its use receivi be rec	Type TR PHY-RX-START-D a in section 9.2.5.4, ing the PHY-RXST reived before the PI ne OFDM PHYs ha	it is clearly the delay betwe ART.ind. For all PHYs, the HY can emit this indication.	en the start ere is a prea	PHY-RX-START-Delay hout adequate definition. Frc of the packet on-air, and mble and a PLCP header to the change appears to believe	I know that it's kind 5.8 should map or Part of the probler the STA initiates a
Add a			ve made sep	parate comments in each plac	which logical entity SuggestedRemedy

Proposed Response Response Status **O**

C/ 00 S	C Generally	P 0	LO	MyBallot # 40	
Stephens, Adri	an				
Comment Type	F TR	Comment Status X		PHY-RX-START-I	Delay

The aPHY-RX-START-Delay parameter has been introduced without adequate definition. Frc its use in section 9.2.5.4, it is clearly the delay between the start of the packet on-air, and receiving the PHY-RXSTART.ind. For all PHYs, there is a preamble and a PLCP header to be received before the PHY can emit this indication. However, the change appears to believ only the OFDM PHYs have this behaviour.

Add a definition for this parameter somewhere. I have made separate comments in each plac where it is wrongly defined to be zero.

Proposed Response Response Status **O**

CI 00	SC Generally	P 0	L 0	MyBallot # 48
Stephens, Ad	drian			

Comment Type E Comment Status X

I know that it's kind of hard to achieve, but I have always felt that the reference model in secti 5.8 should map onto the clause description better than it does.

Part of the problem is the way we use language "a STA associates à" instead of "the SME of the STA initiates an association.request". The use of loose language and failure to identify which logical entity is responsible for normative behaviour causes loss of clarity.

I think we need an "SME procedures" clause. Logically, what needs to be done is each the tI word "the STA" or "the AP", check to see if this is a rule for the SME, and if so, move it to th SME section.

Then we need a cross-check, the MLME_SAP and PLME_SAP should export interfaces that support the behaviour in this section.

A non-trivial undertaking, I know, but I hope it would be worth it.

Proposed Response Response Status **O**

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 3 of 112

 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
 5/18/2005
 11:29:00 AM

May 2005		IEEE P802.11REV-an	n Draft 1.0 Comme	ents -	doc	: IEEE 802.11-05/0482r0
C/ 00 SC Introduction P0 Richard, Paine	L 0	MyBallot # 590	C/ 00 SC pag McCann, Stephen	ge lii PO	L 0	MyBallot # 573
Comment Type E Comment Status X PiiiL8 bad sentence			Comment Type E Editor's note doe	Comment Status X s not specify year of change, only m	onth	
SuggestedRemedy change "membershipit has the following membershipit has the following membershipit has the following membershipit has the following membershipit has the following membership	hip:" to "mem	pership"	SuggestedRemedy Add 2005 as yea	r to months, e.g. March 2005 work i	tem	
Proposed Response Response Status O			Proposed Response	Response Status O		
Cl 00 SC none P0 Kruys, Jan	LO	MyBallot # 306	C/ 01 SC 1.2 Kruys, Jan	PO	LO	MyBallot # 307
Comment Type E Comment Status X misspelling			Comment Type T Last bullit item is	Comment Status D not correct: DFS etc is required in t	he 5GHz b	pand everywhere
SuggestedRemedy In the header - spell "enhancements" correctly			SuggestedRemedy Remove " in Euro	ope"		
Proposed Response Response Status O			Proposed Response PROPOSED AC			
C/ 00 SC Page 1 P0 Hunter, David <	L 0	MyBallot # 545	C/ 02 SC 2 , p Aboba, Bernard	op. 3 P3	L 0	MyBallot # 5
Comment Type ER Comment Status X Title: Technolgoy			Comment Type E Out of date refere	R Comment Status X ence.		
SuggestedRemedy Use word processor that spellchecks anything.			SuggestedRemedy Change "802.1X-	-REV" to "802.1X-2004" throughout	the docum	nent.
Proposed Response Response Status O			Proposed Response	Response Status O		
C/ 00 SC page 1 & Cover page P1 Aboba, Bernard	L 0	MyBallot # 4	C/ 02 SC 2, g Aboba, Bernard	ор. 3 <i>Р</i> 3	L 0	MyBallot # 6
Comment Type ER Comment Status X Misspelling.			Comment Type E Add reference.	R Comment Status X		
SuggestedRemedy Change "Technolgoy" to "Technology"			SuggestedRemedy Add reference to	RFC 4017, "EAP Method Requirem	ents for W	/ireless LANs"
Proposed Response Response Status O			Proposed Response	Response Status 0		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 4 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:00 AM
 C/ 02
 SC 2, pp. 3

May 2005			IEEE P802.11REV-a	m Draft 1.0 Cor	nments -		doc	IEEE 802.11-05/0482r0
<i>Cl</i> 02 <i>SC</i> 2. Engwer, Darwin	P 0	LO	MyBallot # 495	C/ 03 So Watanabe, Fujio	C 3.	P 0	LO	MyBallot # 366
individual changes, the	Response Status W	stencies bei	tween the text in this clause a	SuggestedRem Add the def ESSID and Proposed Resp PROPOSEI	n of SSID. I edy inition of SS SSID if nec onse D REJECT.	SID, BSSID, and ESSID (if new ressary. <i>Response Status</i> W SSID and BSSID are define	cessary) an ed as field n	not say ESSID instead of SSI d add differentiation between ames in clause 7. BSSID is erms" that require definition in
Cl 03 SC 3. Hunter, David Comment Type ER Header: "Enhancment	P 0 Comment Status X	LO	MyBallot # 546	clause 3. A C/ 03 SC Richard, Paine Comment Type	ny occurre C 3. E	Po Comment Status X finition, but didn't change num	i will be cor L 0	
SuggestedRemedy Spellcheck Proposed Response	Response Status O			SuggestedRem change nun Proposed Resp	<i>edy</i> nbering	Response Status O	Joinig	
individual changes, the	P0 Comment Status D of the base standard, the subs ere remain unresolved inconsis oplies to this clause and all sub	stencies bet	tween the text in this clause a	Kruys, Jan Comment Type	on is wrong	P0 Comment Status D and in any case EIRP is alrea	L 0 ady defined	<i>MyBallot</i> # 279
SuggestedRemedy Resolve the inconsiste Proposed Response PROPOSED ACCEPT	encies. Response Status W			Suggesteakem Delete. Proposed Resp PROPOSEI	onse	Response Status W		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 5 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:00 AM
 C/ 03 SC 3.114

May 2005			IEEE P802.11REV	am Draft 1.0 Comments - doc: IEEE 802.11-05/0482r0
C/ 03 SC 3.119 Kruys, Jan	P 0	L 0	MyBallot # 280	Cl 03 SC 3.122 P 0 L 0 MyBallot # 190 Mike, Moreton
Comment Type T This is not correct, it app	Comment Status D plies in the US, Japan etc too	D.		Comment Type TR Comment Status D The definition of WLAN system only allows a single AP.
more used than others. Proposed Response	ory requirement to avoid that <i>Response Status</i> W IN PRINCIPLE. Delete "per I			SuggestedRemedy Replaces "Access Point" with "Access Points" and "AP's station" with "Access Points' stations Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Replace only "Access Point" with "Access Points".
C/ 03 SC 3.121	P 0	L 0	MyBallot # 473	Cl 03 SC 3.122 P 0 L 0 MyBallot # 189 Mike, Moreton
Engwer, Darwin Comment Type TR excess verbiage	Comment Status D			Comment Type TR Comment Status D "the AP's station (STA) and portal entities." is difficult to parse. Is it the AP's (STA and portal) or the (AP's STA) and portal?
SuggestedRemedy change to: This standar mechanism or frame for	d describes such a frame for mat would be used.	mat, but do	es not describe how such a	SuggestedRemedy replace with "portal entities and the AP's station(STA)
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED REJECT.
C/ 03 SC 3.122	P 0	LO	MyBallot # 191	C/ 03 SC 3.13 P 0 L 0 MyBallot # 629 Olson, Tim
Mike, Moreton Comment Type TR An AP is defined to inclu SuggestedRemedy Remove "the AP's static Proposed Response	Comment Status D ude a STA, so there is no new on(STA)". Response Status W	ed to explic	tly include it.	Comment TypeEComment StatusXThis definition of BSA does not make grammatical sense.SuggestedRemedySuggest striking the words "may communicate".Proposed ResponseResponse Status0
PROPOSED ACCEPT.				

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 6 of 112

 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
 5/18/2005
 11:29:00 AM
 C/ 03
 SC 3.13

May 2005		IEEE P802.11REV-	am Draft 1.0 Comments -	doc: IEEE 802.11-05/0482r0		
C/ 03 SC 3.13 Godfrey, Tim	P 0	L 0 MyBallot # 619	C/ 03 SC 3.13 P0 Engwer, Darwin	L 0 MyBallot # 471		
communicate." SuggestedRemedy I suggest either "The ar	ea containing the members c	mbers of a basic service set (BSS) may of a basic service set (BSS)" or "The area) that are able to communicate"	Comment TypeERComment StatusXsentence is not gramatically correctSuggestedRemedy fixProposed ResponseResponse Status0			
C/ 03 SC 3.13 Mike, Moreton	PO	L 0 MyBallot # 187	C/ 03 SC 3.13; page 5 P 0 Hillman, Garth Comment Type E Comment Status X	L 0 MyBallot # <u>340</u>		
Comment Type TR "may communicate" new SuggestedRemedy See comment	Comment Status D eds to be removed from the e	end of the definition of BSA.	Incorrect sentence structure SuggestedRemedy delete "may communicate" Proposed Response Response Status 0			
Proposed Response PROPOSED ACCEPT.	Response Status W		C/ 03 SC 3.14 P0	L 0 MyBallot # 188		
Cl 03 SC 3.13 McCann, Stephen Comment Type E Definition needs a gram	P 0 <i>Comment Status</i> X nmar tweak	L 0 MyBallot # 581	Mike, Moreton <i>Comment Type</i> E <i>Comment Status</i> X "membership in a BSS" is grammatically wrong (at) <i>SuggestedRemedy</i>	least in my part of the world).		
SuggestedRemedy remove "may communi Proposed Response	cate" from end of definition Response Status O		"membership of a BSS" Proposed Response Response Status O			

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 7 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:00 AM
 C/ 03
 SC 3.14

 SORT ORDER:
 Clause, Subclause, page, line
 SC 3.14
 SC 3.14
 SC 3.14

May 2005			IEEE P802.11REV-am	n Draft 1.0	Comments	-	doc	: IEEE 802.11-05/0482r0
C/ 03 SC 3.14 Engwer, Darwin	PO	LO	MyBallot # 472	<i>CI</i> 03 Olson, Tim	SC 3.14	P 0	L 0	MyBallot # 630
adopting a channel o	Comment Status A ynchronized doesn't quite cover r hop sequence. It is being part at BSS and NOT joining all othe	of a *partic	ular* BSS. And that means	definitio must si	w definition for ons. For exam upport the basi	Comment Status D BSS seems like it causes some ple the BSS basic rate set seem c rate set. But if all that is requi is basic rate set definition seem	ns to indica red is to sy	ate that all members of the BS ynchronize with the AP to
SuggestedRemedy fix				Suggestedi 0	Remedy			
Proposed Response ACCEPT. Replace	Response Status C STA Synchornization procedure	" with "Join	service primitive".		, DSED ACCEP [.]	Response Status W T IN PRINCIPLE. The footnote The footnote should refer to clau		
C/ 03 SC 3.14 McCann, Stephen Comment Type E	P 0 Comment Status X	L 0	MyBallot # 582	footnot <i>CI</i> 03 Karcz, Kevi	e with "10.3.3" SC 3.14	P 0	LO	MyBallot # 270
typo SuggestedRemedy change "synchorniza	tion" to "synchronization"			Comment 7	<i>Type</i> E ronization' is m	Comment Status X ispelled in "the STA synchorniza	ation proce	edure"
Proposed Response	Response Status O			edit Proposed F	Response	Response Status O		
C/ 03 SC 3.14 Perahia, Eldad	P 0	LO	MyBallot # 540	C/ 03	SC 3.18	PO	LO	MyBallot # 309
Comment Type E spelling error: "synch SuggestedRemedy synchronization	Comment Status X ornization"			Kruys, Jan Comment 7	Туре Т	Comment Status D nel is a description, not a definit		
Proposed Response	Response Status O				e with: channe	I: an instance of communication DUs) between two or more station		use for the purpose of passing
				Proposed F PROPO	Response OSED ACCEP	Response Status W		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 8 of 112

 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
 5/18/2005
 11:29:00 AM
 C/ 03
 SC 3.18

May 2005		IEEE P802.11REV-a	am Draft 1.0	Comments	doc: IEEE 802.11-05/0482r0		
C/ 03 SC 3.19 P0 Liu, Changwen	LO	MyBallot # 569	C/ 03 Watanabe	SC 3.24 e, Fujio	P 0	LO	MyBallot # 364
Comment Type E Comment Status X I would like to see a better writing for the sentence. I ca	annot und	derstand it.	<i>Comment</i> There	•••	Comment Status X	ecification	
SuggestedRemedy 0			Suggester Add tl	-	oint Coordinator.		
Proposed Response Response Status O			Proposed	Response	Response Status O		
C/ 03 SC 3.22 P0 Kruys, Jan	LO	MyBallot # 310	C/ 03 Kruys, Jar	SC 3.26	PO	LO	MyBallot # 312
Comment Type E Comment Status X The definition of confidentiality is not correct English			Comment 0	Туре Е	Comment Status X		
SuggestedRemedy Replace with: data confidentiality a property of informa unauthorized individuals, entities, or processes.	tion that	prevents disclosure to		dRemedy "deauthenticatio Response			
Proposed Response Response Status O			Fioposed	Response	Response Status O		
C/ 03 SC 3.23 P0 Kruys, Jan	L 0	MyBallot # 311	C/ 03 Kruys, Jar		P 0	L 0	MyBallot # 313
Comment Type E Comment Status X A station may be able to receive at any time.			Comment 0	Туре Е	Comment Status X		
SuggestedRemedy			S <i>uggeste</i> After	<i>dRemedy</i> "dissociation" ad	d "service"		
After "transmit": remove "and may be able to receive"Proposed ResponseResponse StatusO			Proposed	Response	Response Status O		
			C/ 03 Kruys, Jar	SC 3.32	P 0	L 0	MyBallot # 314
			Comment Super	<i>Type</i> E fluous -see 3.35	Comment Status X		
			Suggester Delete	-			
			Proposed	Response	Response Status 0		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 9 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:00 AM
 C/ 03
 SC 3.32

May 20	05			IEEE P802.2	11REV-arr	n Draft 1.0	Comment		d	oc: IEEE 802.11-05/0482r0
<i>Cl</i> 03 Kruys, Jai	SC 3.35	PO	LO	MyBallot # 315		<i>CI 03</i> Kruys, Jan	SC 3.40	P	D <i>L</i> 0	MyBallot # 316
perfor Suggeste Repla syster	nuch text for a def rm DSS functions <i>dRemedy</i> nce with: distribution	Comment Status X inition and it is not correct eith would fall outside the original on system service (DSS): The rt MAC service data units (MS <i>Response Status</i> O	definition. set of serv	ices provided by the di	istributic	Suggestedl Replac transmi an isotr	always dete Remedy e with: effect tted signal ir opic (omnidi enna gain (re	n terms of rectional) radiator. The	ntenna gainà:-) d power (EIRP): T EIRP equals the p losses between t	he equivalent power of a product of the transmitter power ε he transmitter and antenna).
Suggeste Delete verna	Type E lefinition of ad-hoo dRemedy	P0 Comment Status X c network is superfluous. nce to the IBSS definition that Response Status 0	ل 0 adhoc ne	<i>MyBallot</i> # 3 <u>08</u>	used as	Cl 03 Kruys, Jan Comment 1 Suggested Delete Proposed F	uous, see be Remedy	Pi Comment Statu elow Response Status	s X	MyBallot # 317
Suggeste Use c	<i>Type</i> ER s defined in 3.2 ar	Comment Status X Id later in its formal entry.	LO	<i>MyBallot</i> # <u>548</u>		variant. Suggested Replace Proposed F PROPC	ulation is a t Remedy e with: Crypt Response DSED ACCE	Po Comment Status erm with a well defined ographic encapsulation Response Status PT. Also fix up the use ughout the document, a	s D meaning - wherea : The process ofà s W e of "encapsulatio	as the def. only covers the crypto

May 2005 IEEE P802.11REV-a					n Draft 1.0 Comments -				doc: IEEE 802.11-05/0482r0		
C/ 03 SC 3.46 Kruys, Jan	P 0	LO	MyBallot # 319		<i>CI</i> 03 Kruys, Jan	SC 3.51	PO	L 0	MyBallot # 274		
except for the US. Ho is useless. SuggestedRemedy	Comment Status X complete - the 5GHz band is avai owever, that will change shortly to here and in all other appearance	oo. Therefo			Suggestedl	ic off the (nor Remedy note to the b	Comment Status X n) capitalization is hard to follo eginning of the Definitions tha Response Status O				
Proposed Response	Response Status O		M. D. W. (Wares		C/ 03 Oakes, Ivar	SC 3.57	P 0	L 0	MyBallot # 99		
C/ 03 SC 3.49 Kruys, Jan Comment Type E 0 SuggestedRemedy	P 0 Comment Status X	L 0	<i>MyBallot</i>		Comment 7 "interga Suggestedl as com	ation" should Remedy	Comment Status X say "integration services"				
,	d add "-as used in this standard" Response Status O				Proposed F	Response	Response Status O				
Cl 03 SC 3.5 Watanabe, Fujio Comment Type E It seems to me that th	P 0 Comment Status X ne definition of "association" state bible to say "association" if two S			v abc	explana Suggested/ messag input da	C may use a atory sentend Remedy ge integrity ca ata are chang	P0 Comment Status X ny sort of crypto and therefore ces do not belong in the defini ode (MIC): A value generated ged, a new value cannot be co) used by the cryptographic fu	tion section by a cryptogra	aphic function. If the		
Proposed Response	Response Status O				Proposed F	Response	Response Status O				

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 Page 11 of 112 5/18/2005 11:29:00 AM C/ 03 SC 3.67 SORT ORDER: Clause, Subclause, page, line

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 03 SC 3.70 Watanabe, Fujio	P 0	L 0	MyBallot # 365	C/ 03 SC 3.85 Kruys, Jan	P 0	L 0	MyBallot # 277
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
		defined at ar	infrastructure mode. How abc	The conditional doe			
STA in IBSS? Don't	we call Mobile Station? Or is S	STA in IBSS of	categorized as a Portable	SuggestedRemedy			
Station?				,	curity network association (pre-RSI	NA)· Anv t	vne of association used by a
SuggestedRemedy				pair of stations		v, y. 7 ary t	
Add the definition of	mobile station in IBSS				ot use a 4-Way handshake for esta	ablishing a	authentication or association
Proposed Response	Response Status O			between them.			
				Proposed Response	Response Status O		
CI 03 SC 3.73	PO	L 0	MyBallot # 44	. <u></u>			
Stephens, Adrian				C/ 03 SC 3.86	P 0	LO	MyBallot # 278
Comment Type ER	Comment Status X			Kruys, Jan			
	lowed to introduce normative	behaviour (2(005 style quide), "shall" is	Comment Type E	Comment Status X		
reserved for normativ		2011011001 (20		Superfluous			
SuggestedRemedy				SuggestedRemedy			
Replace "shall" with	'is"			Delete			
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 03 SC 3.76	P 0	LO	MyBallot # 276	C/ 03 SC 3.90 Godfrey, Tim	PO	LO	MyBallot # 620
(ruys, Jan							
-	Comment Status X			Comment Type F	Comment Status X		
Comment Type E	Comment Status X			Comment Type E	Comment Status X	onsistent v	vith the definition of liveness
Comment Type E The definition is not a				<i>,</i>	Comment Status X d "liveness" in this definition is inco	onsistent v	vith the definition of liveness
Comment Type E The definition is not a SuggestedRemedy	a complete	lic operations	s associated with a given	The use of the work		onsistent v	vith the definition of liveness
Comment Type E The definition is not a SuggestedRemedy 3.73 nonce: A numer	a complete rical value used in cryptograph		s associated with a given ng over all reinitializations of tl	The use of the word provided in 3.63 SuggestedRemedy			
The definition is not a SuggestedRemedy 3.73 nonce: A numer	a complete rical value used in cryptograph at shall not be reused with that			The use of the word provided in 3.63 SuggestedRemedy	d "liveness" in this definition is inco		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 12 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:00 AM
 C/ 03
 SC 3.90

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 04 SC 4. Godfrey, Tim	P 0	LO	MyBallot # 621	C/ 05 SC 5. P0 L0 MyBallot # 498
Comment Type E	Comment Status X uses the word "ratio", not "rat	dio"		Comment Type TR Comment Status D After the combination of the base standard, the subsequent ammendments and more focuse
SuggestedRemedy				individual changes, there remain unresolved inconsistencies between the text in this clause other clauses. This applies to this clause and all subclauses thereof.
The common definitions Performance Radio Loo	s are "High Performance Rac	lio Local Ac	cess Network" or "High	SuggestedRemedy
Proposed Response	Response Status 0			Resolve the inconsistencies.
				Proposed Response Response Status W PROPOSED ACCEPT.
<i>Cl</i> 04 <i>SC</i> 4. Engwer, Darwin	P 0	L 0	MyBallot # 497	C/ 05 SC 5. P 0 L 0 MyBallot # 45 Stephens, Adrian
individual changes, the	re remain unresolved inconsi blies to this clause and all sul	stencies be	mendments and more focusec tween the text in this clause a ereof.	This section, and particularly section 5.2 creates a number of fictions that have created problems in understanding the system for implementers since the first approved version. These fictions will hopefully be addressed by future activities seeking to clarify architecture. Specifically, an architecture consists of entities for which behaviour is defined connected by interfaces. If the interfaces are exposed to the outside world, they need to be concrete ratt than abstract.
PROPOSED ACCEPT.	P 0	LO	MyBallot # 622	But we have a distribution service that provides an abstract description of communication between APs and portals. Unless the only implementations of the entire DS reside within a single physical realization or system from a single manufacturer, the interfaces between the and portals are exposed and need to be standardised.
Comment Type E Definition of "LED"	Comment Status X			SuggestedRemedy
SuggestedRemedy	d in the majority of definitions	s) is that a L	ED is a "Light Emitting Diode"	Recommend that this section (and particularly 5.2) carry a disclaimer such as: "don't believe this, it will confuse the heck out of you", or alternatively: "the architectural description is un review by study group xxx".
	ence to LED in the standard		es use the phrase "Light	Proposed Response Response Status W
Proposed Response	be both should be updated to Response Status O	aloue ?		PROPOSED REJECT. This standard describes the MAC and PHY and the air interface. It also describes the place of the MAC and PHY in a larger architecture. Describing the entire architecture in a normative fashion is beyond the scope of this standard. Clause 5 has 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 5/18/2005 11:29:00 AM SORT ORDER: Clause, Subclause, page, line

Page 13 of 112 C/ 05 SC 5.

purpose of describing this architecture in a general fashion and not in a restrictive fashion, to

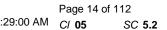
allow future activities to extend this architecture.

May :	2005
-------	------

IEEE P802.11REV-am Draft 1.0 Comments -

Cl 05 SC 5. Kandala, Srinivas	P 0	L 0	MyBallot # 393	<i>Cl</i> 05 Bagby, Da	SC 5.2 avid	P 0	L 0	MyBallot # 103
Comment Type T	R Comment Status D			Comment	Type TR	Comment Status D		
Text on the archi	tecture is not included that were s	uggested as	part of changes.			ed to BSA (area) but the pic still	indicates	s sets. Was this intentional or
SuggestedRemedy						the ovals as areas?		
Add them.				Suggeste	<i>dRemedy</i> e make consiste	nt		
Proposed Response	Response Status W							
	JECT. IT is not clear to the task gommenter is urged to clarify this i			PROF		Response Status W The text references Figure 1 a loves to the concept of basic serv		
C/ 05 SC 5.1	1.2 P 0	LO	MyBallot # 549	figure		wes to the concept of basic serv	ice alea,	which is independent of the
Hunter, David				C/ 05	SC 5.2	P 0	LO	MyBallot # 102
Comment Type E				Oakes, Iva	an			
Incorrect punctua	ition for a list.			Comment	Type TR	Comment Status D		
	ist of clauses or words (as oppos					ortal provides the integration servent of the portal as a unit or a SAP.	vice betwe	een the DS and other LANs."
· ·	re "PHYs:") and remove all of the	periods, exc	ept for the last.	Suggeste	dRemedy			
Proposed Response	Response Status O					by the definition of Portal as giv on service is provided."	en in 3.84	4 "[The portal is] the logical poi
C/ 05 SC 5.2	PO	LO	MyBallot # 550	Proposed	Response	Response Status W		
Hunter, David	10	20		PROF	POSED ACCEPT	Г.		
Comment Type T	R Comment Status D			C/ 05	SC 5.2	P 0	L 0	MyBallot # 574
	fore figure is false: STA might stil	l be able to c	ommunicate with some other	McCann,	Stephen			
members of the I	BSS.			Comment	Туре Е	Comment Status X		
SuggestedRemedy				Figure	e 1 does not sho	w the new BSA		
	 o longer directly communicate with e of directly communicating with s 			Suggeste	dRemedy			
Proposed Response	Response Status W			Add E	3SA to Figure 1			
PROPOSED AC	CEPT IN PRINCIPLE. Reverse the and undelete "BSS".	ne change in t	the last sentence of paragraph	Proposed	Response	Response Status O		

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 5/18/2005 11:29:00 AM C/ 05



May 2005 IEEE P802.11REV-				m Draft 1.0 Comments	-	doc: IEEE 802.11-05/0482r0		
<i>Cl</i> 05 SC 5.2.1 McCann, Stephen	PO	LO	MyBallot # 575	C/ 05 SC 5.2.2 Engwer, Darwin	P 0	LO	MyBallot # 475	
Comment Type E Comment Status X Text "Figure 1 does not show two IBSSs" is not true, as Figure 1 shows BSSs SuggestedRemedy Figure 1 should be changed to show IBSSs		Comment Type TR Comment Status D If we intend the term "membership in a BSS" to have some meaning, then we need to that. SuggestedRemedy						
Proposed Response	Response Status O			Clearly define the tern	·			
				Proposed Response PROPOSED REJECT	Response Status W			
C/ 05 SC 5.2.2 Hunter, David	P 0	L 0	MyBallot # 551	This comment was W	ITHDRAWN by the commenter			
Comment Type ER A STA has membership	Comment Status X			C/ 05 SC 5.2.2 Engwer, Darwin	P 0	L 0	MyBallot # 474	
SuggestedRemedy Replace "of" with "in".				Comment Type ER The word "synchronis	Comment Status X ation" is not US grammar.			
Proposed Response	Response Status O			SuggestedRemedy Change spelling of "sy	/nchronisation" to "synchroniza	tion".		
C/ 05 SC 5.2.2 Karcz, Kevin	P 0	L 0	MyBallot # 271	Proposed Response	Response Status O			
Comment Type E "synchronisation" is	Comment Status X			C/ 05 SC 5.2.2 Perahia, Eldad	P 0	LO	MyBallot # 541	
SuggestedRemedy 0				Comment Type E spelling error: "synchr	Comment Status X onisation"			
Proposed Response	Response Status O			SuggestedRemedy synchronization				
				Proposed Response	Response Status O			

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 15 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:01 AM
 C/ 05
 SC 5.2.2

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 05 SC 5.2.3 Myles, Andrew	P 0	L 0	MyBallot # 124	Cl 05 SC 5.2.3 P 0 L 0 MyBallot # 583 McCann, Stephen 583 <td< th=""></td<>
Comment Type E "unctonrolled" is misspe	Comment Status X			Comment Type E Comment Status X typo last paragraph before 5.2.3.1
SuggestedRemedy Correct				SuggestedRemedy change "unctonrolled" to "uncontrolled"
Proposed Response	Response Status O			Proposed Response Response Status O
C/ 05 SC 5.2.3 Myles, Andrew	P 0	L 0	MyBallot # 443	C/ 05 SC 5.2.3 P0 L0 MyBallot # 553 Hunter, David
Comment Type TR Text explains how unco	Comment Status D ntrolled port frames do not t	ransit the DS	S unlike other frames.	Comment Type ER Comment Status X "unctronrolled"
	s not obvious why this fact is	s called out	nere	SuggestedRemedy Spellcheck
SuggestedRemedy Justify the statement th to this comment if not th	nat uncontrolled port frames ne actual text)	do not trans	it the DS (at least in a res	Proposed Response Response Status O
802.1X frames are term	Response Status W Uncontrolled port frames w inated within the AP, even the	hough they a		C/ 05 SC 5.2.3 P0 L0 MyBallot # 245 Edney, Jon
be forwarded to the DS.	(no change to the text of the	ne draft.)		Comment Type T Comment Status D
C/ 05 SC 5.2.3	P 0	L 0	MyBallot # 594	New paragraph about "controlled port frame" very confusing and using undefined terms
does not, in fact, transm SuggestedRemedy	ame in an RSNA is formatted			rather than actual. Proposed Response Response Status W

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 16 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:01 AM
 C/ 05
 SC 5.2.3

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 05 SC 5.2.3 Perahia, Eldad	P 0	L 0	MyBallot # 542	C/ 05 SC 5.2.3 Myles, Andrew	P 0	L 0	MyBallot # 442
Comment Type E spelling error: "unctonro	Comment Status X			Comment Type E "unctonrolled" is misspo	Comment Status X		
SuggestedRemedy uncontrolled				SuggestedRemedy Correct			
Proposed Response	Response Status O			Proposed Response	Response Status O		
Cl 05 SC 5.2.3 Oakes, Ivan	P 0	L 0	MyBallot # 93	C/ 05 SC 5.2.3 Richard, Paine	P 0	L 0	MyBallot # 592
Comment Type TR The last sentence on pa iterate the AP definition	Comment Status D age 21 has been corrected.	It would be r	nore consistent it it just re-	Comment Type E P22L11 misspelled wor SuagestedRemedy	Comment Status X d "unctonrolled"		
SuggestedRemedy				Change "unctonrolled"	to "uncontrolled"		
is] any entity that has st		des access t	tion from 3.2 "[An Access Poi the distribution services, via	Proposed Response	Response Status O		
Proposed Response PROPOSED ACCEPT.	Response Status W			C/ 05 SC 5.2.3 Chaplin, Clint	P 0	L 0	MyBallot # 420
C/ 05 SC 5.2.3 Chaplin, Clint	P 0	L 0	MyBallot # 424	Comment Type E Spelling error: "unctonr	Comment Status X		
			distribution system medium	SuggestedRemedy Correct to "uncontrolled]"		
(DSM)." is the first time SuggestedRemedy 0	e the term WM is used in the	standard; pl	ease define here.	Proposed Response	Response Status O		
Proposed Response	Response Status 0						

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 17 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:01 AM
 C/ 05
 SC 5.2.3

Submission

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 05 SC 5.2.3 Myles, Andrew	P 0	L 0	MyBallot # 125	<i>Cl</i> 05 Aboba, Beri	SC 5.2.3, pp nard	. 22	P 22	L 0	MyBallot # 7
Comment Type TR Comm Text explains how uncontrolled po	ent Status D ort frames do not tra	nsit the DS	unlike other frames.	Comment T Misspe		Comment S	Status X		
This may be true but it is not obvi SuggestedRemedy Justify the statement that uncont				Suggested Change Proposed F	e "unctronrolled	" to "uncontrolle <i>Response</i> S	0	t the docume	ent.
to this comment if not the actual to	ext) nse <i>Status</i> W Illed port frames wer	re introduce	d in 802.11i. For example,	Cl 05 Yang, Lily	SC 5.2.3.1		P 0	L O	MyBallot # 466
be forwarded to the DS. (no char C/ 05 SC 5.2.3 Hunter, David				the text	only the union	Does ESS inclu	he same SSI		and 6 seem to suggest that, SS only the part of the L2
Comment Type ER Comm Using term "provide" in different v SuggestedRemedy	ent Status X vays in same senten	ice		, ,	•	'	ation to BSS a	and DS. IS E	SS the union of all BSS and
Replace "provides" with "enables"	". nse Status O				DSED ACCEPT	<i>Response</i> S . Add to the en I by a DS. The	d of the first p		5.2.3.1: "An ESS is the unior DS."
C/ 05 SC 5.2.3, pp. 22 Aboba. Bernard	P 22	LO	MyBallot # 8	<i>CI</i> 05 Hunter, Dav	SC 5.2.3.1 ⁄id		P 0	LO	MyBallot # 554
Comment Type TR Comm The 2nd paragraph is confusing. and uncontrolled port, there is no				Suggested	ally disjointed"	Comment S s not correct Er			
SuggestedRemedy Change paragraph to: "Data sent it conceptually transits the DS unl must have the "To DS" bit set, even	ess it utilizes the 80	2.1X Ether	ype. Therefore such frames	Proposed R	,	Response S	Status O		
Proposed Response Response Response PROPOSED ACCEPT IN PRINC	nse Status W IPLE. Resolved with	n resolution	of comment 245.						

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 18 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed
 U/unsatisfied Z/withdrawn
 5/18/2005 11:29:01 AM
 C/ 05
 SC 5.2.3.1

Submission

May 2005			IEEE P802.11REV-a	m Draft 1.0) Comments -		doc	: IEEE 802.11-05/0482r
C/ 05 SC 5.2.3.1 Chaplin, Clint	P 0	L 0	MyBallot # 421	Cl 05 Watanabe	SC 5.2.3.2 e, Fujio	P 0	L 0	MyBallot # 368
that also has an ESS n been set up by differen	Comment Status X the most common are when an etwork, and when physically o t organizations." I would sugge licies are needed in the same	verlapping est to add tl	IEEE 802.11 networks have	Suggeste	ments the EAP A	Comment Status X uthenticator roles, and ible Authentication Protocol (E	AP) Authe	nticator role
that also has an ESS n	ne most common are when an etwork, when physically overla	apping IEEE	802.11 networks have been		Response	Response Status O		
set up by different orga are needed in the same	nizations, and when two or mo e location."	ore differen	access and security policies	Cl 05 Watanabe	SC 5.2.3.2 , Fujio	P 0	L 0	MyBallot # 369
Proposed Response	Response Status 0				a STA always imp	Comment Status X plements a Supplicant PAE an I (EAP) peer role.	nd impleme	nts the Extensible
C/ 05 SC 5.2.3.2 Edwards, Bruce	P 0	L 0	MyBallot # 404	Suggeste	dRemedy			
	Comment Status X oubly-nested acronym "CCMP other than Medium Access Co				a STA always imp <i>Response</i>	olements a Supplicant PAE an Response Status O	id impleme	nts the EAP peer role.
SuggestedRemedy	vel of acryonym or all levels wi			C/ 05 Watanabe	SC 5.2.3.2 e, Fujio	P 0	L 0	MyBallot # 367
•	authentication code Protocol Response Status O	(CCMP)"		Comment An ac	51	Comment Status X Iways implements		
				00	dRemedy P always impleme	ents		
C/ 05 SC 5.2.3.2 Chaplin, Clint	P 0	L 0	MyBallot # 422		Response	Response Status O		
across this section, wh base standard will poin at this particular point.	Comment Status X in that many times acronyms ar ich goes too far in the opposite t out areas like this, where it is For instance, this is not the fir	e direction. no longer	Pulling in amendments into t necessary to define acronyms					
expanded here.								
expanded here. SuggestedRemedy 0								

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn 5/18/2005 11:29:01 AM C/ 05 SORT ORDER: Clause, Subclause, page, line

Bob O'Hara, Cisco Systems

SC 5.2.3.2

May 2005 IEEE P802.11RE\				am Draft 1.0 Comments -				doc: IEEE 802.11-05/0482r0		
C/ 05 SC 5.2.3.2 Hunter, David	P 0	L 0	MyBallot # 556	C/ 05 SC : Aboba, Bernard	5.2.3.2, pp. 24	P 24	LO	MyBallot # 9		
Comment Type ER "EAP" is used before it i	Comment Status X			<i>Comment Type</i> EAP method r		omment Status X re defined in RFC 4017, v	hich was	approved by IEEE 802.11.		
SuggestedRemedy				SuggestedRemed	ly					
Switch the usages of "E	AP" and "Extensible Authenti	ication Prot	ocol (EAP)".	In the 2nd paragraph, change "use of an EAP method that supports mutual authentiation of th AS and the STA." to "use of an EAP method that supports the requirements of RFC 4017,						
Proposed Response	Response Status O					an EAP method that supp on of the AS and the STA		equirements of RFC 4017,		
				Proposed Respon		esponse Status O				
C/ 05 SC 5.2.3.2	P 0	L 0	MyBallot # 423							
Chaplin, Clint				C/ 05 SC :	5.2.4	P 0	LO	MyBallot # 72		
Comment Type TR	Comment Status D			Oakes, Ivan						
	nts a Supplicant PAE and im e." Repeat after me: an AP is a supplicant PAEà.			Comment Type This section is		omment Status D ne specification, remove it				
SuggestedRemedy				SuggestedRemed	ly					
	STA always implements a Sup	oplicant PAI	E and implements the	Delete section	n 5.2.4 "Area C	oncepts" including the dia	gram			
	on Protocol (EAP) peer role."			Proposed Respon	ise Re	esponse Status W				
Proposed Response PROPOSED ACCEPT.	Response Status W			understand th	e vague and ti		eless com	d helps the implementer to imunication. It also helps to ification		
C/ 05 SC 5.2.3.2	P 0	L 0	MyBallot # 555	C/ 05 SC 9		P 0	L 0	MyBallot # 104		
Hunter, David				Bagby, David	5.5	ΡU	20	Myballot # 104		
Comment Type ER	Comment Status X				TD					
Need period at the end	of the list.			Comment Type		omment Status D	orror in t	he paragraph or did someone		
SuggestedRemedy				just feel it was	s unnecessary?			ne paragraph of did someone		
Add period after "(TKIP))"			SuggestedRemed	ly					
Proposed Response	Response Status O			I would like to	see the parage	raph remain.				
				Proposed Respon PROPOSED /		esponse Status W RINCIPLE. Duplicate of 1	05.			

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 20 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:01 AM
 C/ 05 SC 5.3

May 2005 IEEE P802.11REV				am Draft 1.0 Comments -			doc: IEEE 802.11-05/0482r0		
C/ 05 SC 5.3 Hunter, David	PO	LO	MyBallot # 558	<i>Cl</i> 05 SC 5.3 Bagby, David	P 0	L 0	MyBallot # 105		
Comment Type E Misused m-dashes mail SuggestedRemedy Replace m-dashes with Proposed Response	Comment Status X ke it appear as if the word betw n parens. Response Status O	ween the m	-dashes are a single clause	just feel it was unn SuggestedRemedy Retain the paragra Proposed Response	aragraph removed? Was it there a ecessary?		he paragraph or did someone		
Cl 05 SC 5.3 Hunter, David Comment Type ER Need period at the end SuggestedRemedy Add period after "TPC"	P 0 Comment Status X of the list.	LO	MyBallot # 557	Cl 05 SC 5.3 Engwer, Darwin Comment Type TR the first sentence is SuggestedRemedy		LO	MyBallot # 476		
Proposed Response	Response Status O			Proposed Response PROPOSED ACCE	e sentences of the first paragraph <i>Response Status</i> W EPT. Restore the deleted paragra	aph (the firs	t paragraph of 5.3), except for		
Cl 05 SC 5.3 Odman, Knut Comment Type E Page 27, Last sentence SuggestedRemedy Delete the old "DS" bef Proposed Response	P0 Comment Status X e in 5.3: "DS" should be omitte fore new "the DSS" Response Status O	4 0	MyBallot # 563	the first sentence. Cl 05 SC 5.3.1 Hunter, David Comment Type ER Need period at the SuggestedRemedy Add period after "T Proposed Response	end of the list.	LO	MyBallot # 559		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 21 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open
 W/written
 C/closed
 U/unsatisfied Z/withdrawn
 5/18/2005 11:29:01 AM
 C/ 05
 SC 5.3.1

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 05 SC 5.3.2	P 0	LO	MyBallot # 560	C/ 05 SC 5.3.3	P 0	L 0	MyBallot # 467
Hunter, David Comment Type ER Need period at the end	Comment Status X			Yang, Lily <i>Comment Type</i> E This clause makes i	Comment Status X nore sense if it is after 5.4 with	more expla	ination of what DSS means.
SuggestedRemedy Add period after "Reas Proposed Response				SuggestedRemedy	into one clause, and reorder s	·	
Cl 05 SC 5.3.2 Turner, Sandra Comment Type E	P0	L 0	MyBallot # 616	<i>Cl</i> 05 SC 5.4 Engwer, Darwin	P 0	L 0	MyBallot # 477
05/105r4 wording is sli SuggestedRemedy Follow 05/105r4 wordin	ightly different for the first sen	ed in the IEE		Comment Type TR paragraph 5: Inconsi SuggestedRemedy change "MAC manage Proposed Response PROPOSED ACCER	gement service data path" to "N Response Status W	IAC manag	ement service path".
C/ 05 SC 5.3.3 Bagby, David	P 0	L 0	MyBallot # 106	Cl 05 SC 5.4.1.1 Hunter, David Comment Type ER	P 0 Comment Status X	L 0	MyBallot # 561
space to be an attribut operating at the IP laye	e of the DSM. However, this i	s coupling is DSM addres	s space is that of enet, but the	Since "DSS" is defin SuggestedRemedy Replace "a DSS" wit Proposed Response	ed as a singular "group service h "the DSS" <i>Response Status</i> O	" then the re	eference to "a DSS" is incorrec
SuggestedRemedy put back to "DS"							
Proposed Response PROPOSED ACCEPT	Response Status W . Reverse the changes from	DS to DSM	in paragraphs 4 and 5.				

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 22 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:01 AM
 C/ 05
 SC 5.4.1.1

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 05 SC 5.4.1.2 Hunter, David	P 0	L 0	MyBallot # 562	C/ 05 SC 5.4.3.3 P0 L0 MyBallot # 539 Ciotti, Frank
SuggestedRemedy	Comment Status X d as a singular "group service "one of the services in the DS Response Status O		eference to "a DSS" is in	confidentiality service failures are still acknowledged on the WM if they pass the FCS check. did not find this behavior defined elsewhere in the spec. Since I thought that Clause 5 did not contain normative text, I felt this behavior should be defined in either Clause 8 or perhaps in Clause 9.2.8 (ACK procedure) SuggestedRemedy
C/ 05 SC 5.4.3.2 Stephens, Adrian	P 0	LO	MyBallot # 46	Add normative text describing ACK procedure for frames discarded for failure of confidentiality service. Proposed Response Response Status 0
SuggestedRemedy	NAs à" mistakenly implies tha ucture and independent BSS <i>Response Status</i> O		cific to the infrastructur	e BSS. <i>Cl</i> 05 SC 5.4.4.1 <i>P</i> 0 <i>L</i> 0 <i>MyBallot</i> # 73 Oakes, Ivan <i>Comment Type</i> TR <i>Comment Status</i> D The first paragraph of adds nothing and may be incomplete given recent FCC rulings.
C/ 05 SC 5.4.3.2 Jalfon, Marc Comment Type E	P 0 <i>Comment Status</i> X JAs à" mistakenly implies tha	L O	MyBallot # 534	SuggestedRemedy Remove 1st paragraph of 5.4.4.1 starting "ERC/DEC/(99)23à" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Replace the reference to ERC/DEC/(99)23 with "Radio regulations may require"
SuggestedRemedy	acture and independent BSS			C/ 05 SC 5.4.4.2 P0 L0 MyBallot # 74
Proposed Response	Response Status O			Comment Type TR Comment Status D The first paragraph of adds nothing and may be incomplete given recent FCC rulings. SuggestedRemedy Remove 1st paragraph of 5.4.4.2 starting "ERC/DEC/(99)23à" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Replace the reference to ERC/DEC/(99)23 with "Radio regulations may require"

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 23 of 112

 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/ 05
 SC 5.4.4.2

Bob O'Hara, Cisco Systems

IEEE P802.11REV-am Draft 1.0 Comments -

							
C/ 05 SC 5.5 Odman, Knut	P 0	L 0	MyBallot # 565	C/ 05 SC 5.5 Watanabe, Fujio	P 0	L 0	MyBallot # 370
associated will imply dis SuggestedRemedy Reinstate text. Proposed Response	Comment Status D nagement frames. Isn't it still sassociation? Compare 5.4.3 Response Status W	.2, 5.5 and	11.3.3	a) Class 1 framesà. 6) Manag SuggestedRemedy Change to 2) Management fr	-	s a wrong nu	Imber
	The text has not been delete sending class 1, 2 and 3 frame	,	ed to class 1. The effect is the	C/ 05 SC 5.5	P 0	LO	MyBallot # 142
C/ 05 SC 5.5	P 0	LO	MyBallot # 75	Visscher, Bert			
not know of the existan to AP, but what procedu SuggestedRemedy	ice of the STA before authent	e association. As the Ap doe the frame must be from STA	In many implementations WD gone through the association SuggestedRemedy Add an explicit note indicating unless both peers have estab	procedure. g that WDS frames mu	st result in a		
Proposed Response PROPOSED ACCEPT.	Response Status W			PROPOSED REJECT. The sand when a STA must deauth			nes may be accepted by a ST. t of a data frame.
Cl 05 SC 5.5 Mike, Moreton Comment Type TR	P0 Comment Status D	LO	MyBallot # 192	Cl 05 SC 5.5 Odman, Knut Comment Type T Co Page 37, item b) 1) iii) Disass	P 0 comment Status D sociation. Belongs to c	L 0) class 3.	MyBallot # 564
	a) 6) iv) make it a bit tautologi	ical.		SuggestedRemedy	, j		
SuggestedRemedy Remove all the new tex implies disassociation a		ation notification when in State	Move item to c) class 3. Proposed Response Response Status W				
Proposed Response PROPOSED ACCEPT.	Response Status W			PROPOSED REJECT. It app "state 2". If a class 3 frame ((authenticated but not associ synchronize the sending STA to this situation to be deauther	a data frame) is receive ated), the receiving ST to state 2. Moving thi	ed from a S A is to send is to class 3	TA while in State 2

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 24 of 112

 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/ 05
 SC 5.5

Bob O'Hara, Cisco Systems

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 05 SC 5.5 Ecclesine, Peter	P 0	L 0	MyBallot # 148	C/ 05 SC 5.5 P 0 L 0 MyBallot # 246 Edney, Jon
Comment Type E a) Management Frame: SuggestedRemedy change to '2'	Comment Status X s numbered '6' instead of '2'			Comment Type TR Comment Status D The sending of data frames as class 1 frames has been restricted to IBSS. I see no reason fo this change and, furthermore, it removes a potentially useful method by which stations might i future communicate to the SME of an AP without transiting the DS (there is already a precede for this)
Proposed Response	Response Status O			SuggestedRemedy Remove the words "in an IBSS"
Cl 05 SC 5.5 P0 L0 MyBallot # 107 Bagby, David Comment Type TR Comment Status D page 36 û should the class 1 list in a) 6) really be numbered a) 2) to make the outline format				Proposed Response Response Status W PROPOSED REJECT. The cited sentence refers only to operation of an independent BSS (see both ToDS and FromDS equal to zero). Adding the words "in an IBSS" helps to clarify this. If the commenter disagrees, please provide more complete description of the precedent not cited in your comment.
correct? Also in c) sho SuggestedRemedy	uldnÆt the removal of 2) cau			C/ 05 SC 5.5 P 0 L 0 MyBallot # 193 Mike, Moreton Mike, Moreton
correct as required Proposed Response PROPOSED ACCEPT.	Response Status W			Comment Type ER Comment Status X Second sub-bullet of bullet a) is labelled "6".
C/ 05 SC 5.5 Edwards, Bruce	P 0	L 0	MyBallot # 405	SuggestedRemedy Change to 2. Proposed Response Response Status 0
completely deleted. It p SuggestedRemedy	Comment Status X ass 3 frames should renumb robably is just a text process			Cl 05 SC 5.7 P0 L0 MyBallot # 47 Stephens, Adrian Comment Type E Comment Status X
Make the change. Proposed Response Response Status O			l've always wondered about the value of this section. The descriptions of messages are an incomplete and abstract representation of frame formats. Much information that is present in the frame formats is left out. The rules for what is in and what is out are not clear, which will lead to confusion.	
				SuggestedRemedy Remove section 5.7
				Proposed Response Response Status O

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 25 of 112

 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/ 05
 SC 5.7

C/ 05 SC 5.7.8 P0 L0 MyBallot # 149 Ecclesine, Peter	Cl 05 SC 5.9 P0 L0 MyBallot # 78 Oakes, Ivan
Comment Type E Comment Status X Direction of Message is given as a separate thing, but was an 'Information item' in Amendmer 802.11h, and only appears as Measurement Request Mode bits SuggestedRemedy Demote 'Direction of message' to be fourth 'Information item' Proposed Response Response Status O	Comment Type TR Comment Status D It is unclear how the Controlled Port gets blocked after being Unblocked. SuggestedRemedy Add a new section after 5.9.2.2 "Disassociation" with the contents "Disassociation instigated k either end of the link causes the installed PTK and, on a non-AP STA, the GTK keys to be removed from IEEE 802.11 and the Controlled Port to become Blocked. All subsequant MSDUs transmitted and received between the peers are not encrypted or decrypted."
Cl 05 SC 5.8 P0 L0 MyBallot # 468 Yang, Lily Comment Type TR Comment Status X	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Add the section as described in the suggested remedy, replacing "all subsequent" with the words "Until the controlled port again becomes unblocked,"
Figure 11 graphic ambiguity: the vertical line between MAC sublayer and MAC Sublayer Management Entity goes above the horizontal line of "MAC_SAP", why? On the right hand sic The Station Management Entity is not a fully enclosed box: Is 802.1X Authenticator/Supplicar part of SME or not? If it is, then why is it not fully enclosed, and why is it drawn above the invisible horizontal line extended from "MAC_SAP"? If it is not part of SME, then we should clearly depict it that way, with interface between SME and it clearly marked.	Cl 05 SC 5.9.2.1 P0 L0 MyBallot # 77 Oakes, Ivan Comment Type TR Comment Status D It is unclear if the uncontrolled port MSDUs (i.e. EAPOL frames) are themselves encrypted once the PTK and GTK keys are installed.
SuggestedRemedy Fix the graphic to match the actual meaning. The text can use some more clarification too if it not obvious from the graph. Proposed Response Response Status Delete the vertical line extending above the MAC sublayer and MAC Sublayer Management Entity. Draw a single block above the MAC Data SAP, extending above bothe the MAC	SuggestedRemedy Add a sentence "Installing the PTK, and where applicable the GTK keys, causes the MAC to encrypt and decrypt all subsequant MSDUs irrespective of their path through the controlled or uncontrolled ports." Proposed Response Response Status W PROPOSED ACCEPT.
Susblayer and MAC Sublayer Management Entitiy and label it "802.1X". Delete the box lable "802.1X Authenticator/Supplicant".	Cl 05 SC 5.9.2.1 P0 L0 MyBallot # 444 Myles, Andrew Comment Type E Comment Status X "Anonce" in Figure 14 is incorrect font size SuggestedRemedy
	Correct

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general Page 26 of 112 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn 5/18/2005 11:29:01 AM C/ 05 SORT ORDER: Clause, Subclause, page, line SC 5.9.2.1

Proposed Response

Response Status 0

Bob O'Hara, Cisco Systems

May 2005			IEEE P802.11REV-am	n Draft 1.0	Comments -			doc:	IEEE 802.11-05/0482r0
C/ 05 SC 5.9.2.1 Oakes, Ivan	P 0	LO	MyBallot # 76	<i>C</i> / 05 Aboba, Be	SC 5.9.2.1, p	op. 44	P 44	L 0	MyBallot # 10
now". I suggest making SuggestedRemedy	Comment Status X the term "blocked", this can b g this clearer by adding the wo 'Remains Blocked" in Figure 1 Response Status O	ord "remains		Suggested	ard separation of <i>Remedy</i> "Confirm the cipt		ake functionali		deally on page 43).
C/ 05 SC 5.9.2.1 Myles, Andrew	PO	L 0	MyBallot # 126	<i>CI</i> 05 Oakes, Iva	SC 5.9.3		P 0	L 0	MyBallot # 79
Comment Type E "Anonce" in Figure 14 i SuggestedRemedy Correct	Comment Status X s incorrect font size			allowin can be whethe	I suggests a STA ng de-auth later. assumed the lir	If not, then 5.9 hk will make an st and how rec	cate in an IBS .3.1 implies de d break often. overy may be a	e-auth with c It is unclea	security POL key exchange, thus but auth? Further in an IBSS, r how this is handled, i.e. one end is reset but not the
Proposed Response	Response Status O				sentence or two				ake may follow 802.11 be used by the peer to uninst
Cl 05 SC 5.9.2.1 Engwer, Darwin Comment Type ER	P 0 Comment Status X	L 0	MyBallot # 478	the PT Proposed	K key and Block	the Controlled <i>Response</i> S	Port thus rese	eting any pre	evious handshake."
draft. Needs an explan	ne first use of a Message Sequation of the diagram syntax.	ence Chart	(MSC) within the revised	C/ 05 Stephens,	SC 5.9.4 Adrian		P 0	LO	MyBallot # 49
SuggestedRemedy Add description of MSC syntax, i.e. entities at the top, messages/ events between the entities with time increasing from top to bottom. Even better would be to (also) cite a definitive reference document/ standard for this type of diagram (i.e. some ISO standard document) and then also add that to Annex E.				Comment	<i>Type</i> E col must support	Comment - ". Use of "mus		d.	
Proposed Response	Response Status O			Replac Proposed	ce with an alterna Response	ative, e.g. shou <i>Response</i> S			

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 Page 27 of 112 5/18/2005 11:29:01 AM C/ 05 SC 5.9.4

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 05 SC 5.9.4 Jalfon, Marc	P 0	L 0	MyBallot # 535	C/ 06 SC 6.1.5 P0 L0 MyBallot # 143 Visscher, Bert Visscher
SuggestedRemedy	Comment Status X Use of "must" is deprecate	ed.		Comment Type TR Comment Status D An MSDU representing a 802.1X frame must also be discarded if the destination address is unequal to the authenticator address, otherwise 802.1X encapsulated frames bypass the privacy function.
Replace with an alterna Proposed Response	tive, e.g. should Response Status O			SuggestedRemedy Add that 802.1X frames will also be discarded if the destination address is unequal to the authenticator address.
C/ 06 SC 6. Engwer, Darwin	P0	L 0	MyBallot # 499	Proposed Response Response Status W PROPOSED REJECT. All 802.1X frames will be processed by the privacy function. There is no bypassing it. The handling of misaddressed 802.1X frames is an issue for 802.1X.
individual changes, ther	the base standard, the sub- e remain unresolved incons lies to this clause and all su	istencies be	tween the text in this clau	
Proposed Response PROPOSED ACCEPT.	Response Status W			frame." SuggestedRemedy change "or" to "and"
<i>Cl</i> 06 <i>SC</i> 6.1.2 Raissinia, Ali	P 0	L 0	MyBallot # 431	Proposed Response Response Status O
Comment Type E 802.11 WEP, TKIP and SuggestedRemedy Add the word Privacy pr Proposed Response	Comment Status X CCMP provide "privacy" pro rior to protection Response Status O	otection		Cl 06 SC 6.2.1.1.2 P0 L0 MyBallot # 479 Engwer, Darwin Comment Type TR Comment Status D incorrect direction indicated in text SuggestedRemedy Change "The source address (SA) parameter specifies an individual MAC sublayer address of the sublayer entity to which the MSDU is being transferred." to "The source address (SA) parameter specifies an individual MAC sublayer entity from which the MSDU is being transferred." Proposed Response Response Status W

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 28 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written
 C/closed
 U/unsatisfied Z/withdrawn
 5/18/2005 11:29:01 AM
 C/ 06
 SC 6.2.1.1.2

Submission

May	2005
-----	------

IEEE P802.11REV-am Draft 1.0 Comments -

<i>Cl</i> 06 SC 6.3.1 Kruys, Jan	P 0	L 0	MyBallot # 281	C/ 07 SC 7.1.3.1 P 0 L 0 MyBallot # 50 Stephens, Adrian 50
Comment Type E Add data integrity as a s not cover it.	Comment Status X service - it is a major compo	nent on the F	RNSA and authentication doe:	Comment Type E Comment Status X The frame control fields are not valid in certain types of MPDU. This information is distributed throughout the subsections of section 7.1.3.1 (and sometimes it's missing).
SuggestedRemedy Replace the first bullit w Proposed Response	rith "a) data confidentiality ar Response Status O	nd data integ	rity"	SuggestedRemedy I think you need a table of field versus type (I don't think subtypes are necessary, but they con easily be introduced) and indicate which uses are reserved.
· · ·	·			Proposed Response Response Status O
C/ 07 SC 7. Stephens, Adrian	P 0 Comment Status X	L 0	MyBallot # 51	C/ 07 SC 7.1.3.1 P0 L0 MyBallot # 536
I gave up counting when Example in 7.2.1.4: "Al do with definition of the Section 7 needs to be s	n should describe structures n I reached 120 "shall"s in so I STAs update their NAV set PS-Poll frame format.	ection 7 (got ting as appro ructure, with	as far as 7.3.2.21.1). opriate" which has nothing to normative behaviour describe	Comment Type E Comment Status X The frame control fields are not valid in certain types of MPDU. This information is distributed throughout the subsections of section 7.1.3.1 (and sometimes it's missing). SuggestedRemedy I think you need a table of field versus type (I don't think subtypes are necessary, but they coureasily be introduced) and indicate which uses are reserved.
SuggestedRemedy Scan section 7 for use of appropriate section.	of the word "shall". Move a	ny text descr	ibing behaviour into the	Proposed Response Response Status O
Where shall is used to i Proposed Response	ntroduce a constraint in the <i>Response Status</i> O	use of the fo	rmat, this can be done with "i	Cl 07 SC 7.1.3.1.9 P0 L0 MyBallot # 282 Kruys, Jan Comment Type T Comment Status D
C/ 07 SC 7.	P 0	L 0	MyBallot # 500	The "protected bit" is restricted to certain message types; removing that restriction here does not change the standard but makes adding in the management protection easier.
individual changes, ther		istencies bet	nendments and more focusec ween the text in this clause a	SuggestedRemedy Remove the sentence "The Protected Frame field is set to 1 only within data frames and within management frames of subtype Authentication. The Protected Frame field is set to 0 in all other frames."
SuggestedRemedy Resolve the inconsister Proposed Response			леон.	Proposed ResponseResponse StatusWPROPOSED REJECT.This is being handled by Task Group W and is out of scope for this revision.
	Nesponse Sidius W			

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 29 of 112

 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
 SC 7.1.3.1.9

IEEE P802.11REV-am Draft 1.0 Comments -

C/ 07 SC 7.1.3.3 Bagby, David	3.2 P0	L 0	MyBallot # 108	<i>CI</i> 07 Oakes, Iva	SC 7.2.1.1 an	P 0	L 0	MyBallot # 84		
Bagby, David Comment Type TR Comment Status D better to say ôAll ones shall be interpretedàö SuggestedRemedy Change as suggested Proposed Response Response Status W PROPOSED REJECT. This is a descriptive paragraph. It is not specifying a normative behavior. The use of "shall" is not appropriate here.				Comment Type TR Comment Status D In the text for management, data and PS-Poll frames, there is specific text for setting NAV. This text is not present for RTS/CTS or ACK. This is misleading as it would suggest NAV should be processed for data, mgt and PS-Poll but not for these other frames types. I believe this to be wrong. I believe NAV should be processed for all frames types irrespective of type and using a uniform rule. 9.2.5.4 gives almost the complete rule, but neglects the 32768 valu 7.1.3.2 mentions 32768 but neglects to mention the address rule. The PS-Poll text indicates even the receiving STA sets its NAV which is inconsistent. It also requires to knowledge of the duration of the ACK and SIFS which will depend on the basic rate set and operating mode ar						
C/ 07 SC 7.1.3.7 Raissinia, Ali Comment Type E	Comment Status X	L0 MyBallot # 432 CF period". suggestion is				may not be known by all STAs. The SDL gives a good summary (page 721):"Update NA using Duration/ID value from frames to all other stations. Else case is for Durld=32768 ir CF period". It would make the text very much clearer if there were only one statement, m suggestion is to remove the incomplete and inaccurate text from various sections in 7 an ammend section 9 to have the complete rule, dropping any special case for PS-Poll.				
0	able-19 should be moved under	this section	and not under 7.1.3.8	Suggestee	dRemedy					
SuggestedRemedy Move the diagram						t add to the end first sentance 32768 or codes an AID". In				
Move the diagram Proposed Response Response Status O		conter upon coord to trar	nts of the duratic receipt of a PS-F ination function nsmit one ACK fi	on/ID field are less than 3276 Poll frame, update their NAV rules using a duration value e	8, ". In 7.2.1 settings as a equal to the t Remove th	.4 remove the text "All STAs,				
			<i>Proposed</i> PROF	Response	Response Status W	0	cover all that the commenter			
			<i>Cl</i> 07 Godfrey, 1	SC 7.2.1.2 Fim	P 0	L 0	MyBallot # 623			
				Comment	Туре Е	Comment Status X				
				section does not change.	specify how the RA field is to	be set whe	n the CTS is the first frame in			
				Suggestee Speci	,	eld is the address of the STA	transmitting	the frame in the last paragrap		
				Proposed	Response	Response Status 0	-			

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 30 of 112

 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/ 07
 SC 7.2.1.2

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 07 SC 7.2.2 P0 L0 MyBallot # 81	C/ 07 SC 7.2.2 P0 L0 MyBallot # 247 Edney, Jon
Comment Type TR Comment Status D Paragraph below table 4: "Association" has a specific meaning in 802.11. Using the term her may cause confusion as there is no association in an IBSS. SuggestedRemedy	Comment Type T Comment Status D "to ensure that the broadcast or multicast originated in the same BSS to which the station is associated." This text is wrong since the rule also applies for IBSS
Replace the words "to which the station is associated" with "to which the STA is joined" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolved by the resolution of comment 247.	SuggestedRemedy originated from a STA in the BSS for which the receiving STA is a member Proposed Response Response Status W PROPOSED ACCEPT.
CI 07 SC 7.2.2 P0 L0 MyBallot # 195 Mike, Moreton Mike, Moreton TR Comment Status D "to ensure that the broadcast or multicast originated in the same BSS to which the station is associated" - a STA isn't associated with an IBSS, and broadcast frames may originate in another BSS across the DS. SuggestedRemedy "to ensure that it was transmitted by another member of the same BSS". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolved by the resolution of comment 247.	Cl 07 SC 7.2.3 P0 L0 MyBallot # 248 Edney, Jon Comment Type T Comment Status D "to ensure that the broadcast or multicast originated in the same BSS to which the station is associated." This text is wrong since the rule also applies for IBSS SuggestedRemedy originated from a STA in the BSS for which the receiving STA is a member Proposed Response Response Status PROPOSED ACCEPT.
Cl 07 SC 7.2.2 P0 L0 MyBallot # 194 Mike, Moreton Mike, Moreton Comment Type T Comment Status D I'd just like to express my immense appreciation to the group for the additions to table 4. This was a huge logical hole that made other descriptions much more complex than they needed to be. SuggestedRemedy None. None. None.	Cl 07 SC 7.2.3 P0 L0 MyBallot # 82 Oakes, Ivan Comment Type TR Comment Status D Paragraph below figure 30: "Association" has a specifici meaning in 802.11. Using the term here may cause confusion as there is no association in an IBSS. In addition action frames m be sent without association according to 5.5. SuggestedRemedy

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 31 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:02 AM
 C/ 07
 SC 7.2.3

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 07 SC 7.2.3	P 0	LO	MyBallot # 85	Cl 07 SC 7.2.3.* & 7.3.2.26 & pos P0 L0 MyBallot # 109		
Oakes, Ivan				Bagby, David		
Comment Type TR	Comment Status D			Comment Type TR Comment Status D		
length of the resulti to.	tion explicitly of the vendor speci ing MMPDU in order that implem			I oppose the introduction of vender specific elements. If a specific function is sufficiently use to the industry as to be needed, it should be standardized and included. This is an attempt to have a standard encourage non-standard operation û a very bad idea in the opinion of this reviewer. This reviewer will not vote to approve the draft until all the added vendor specific		
SuggestedRemedy				related changes are removed.		
	ection 7.2.3: "Where Vendor Spe MPDU frame body shall not exce			t SuggestedRemedy		
Proposed Response	Response Status W	0		Remove all vendor specific element additions		
PROPOSED REJE	CT. The length of the MMPDU in the frame body of all frame body of			Proposed ResponseResponse StatusWPROPOSED REJECT.The definition of a standard vendor-specific information element is		
C/ 07 SC 7.2.3 Watanabe, Fujio	P 0	L 0	MyBallot # 371	preferable to vendors independently choosing random values to carry their proprietary information. This, at least, allows standard implementations to operate correctly along side implementations with vendor-specific extensions.		
Comment Type E the BSSID also is v	Comment Status X validated to ensure that the broca	stàThis sen	tentce has grammatical error.	C/ 07 SC 7.2.3.1 P0 L0 MyBallot # 537 Jalfon, Marc		
SuggestedRemedy the BSSID is also v	validated to ensure			Comment Type E Comment Status X These tables of things in order create potential future problems. If the current specification		
Proposed Response	Response Status O			order of elements coincidentally agrees with the numeric order of the elements, I propose the management frame format sections only list which elements are present and there be a global rule that elements shall be transmitted in order of element ID for all frames.		
C/ 07 SC 7.2.3	P 0	LO	MyBallot # 196	SuggestedRemedy		
Mike, Moreton Comment Type TR	Comment Status D			If this suggestion is accepted, it is possible to go futher, in each element, list the manage frames that include it. The management frame formats then indicate the format of their fix fields and indicate whether any elements are present or not.		
"to ensure that the	broadcast or multicast originated 't cover the IBSS case.	in the same	e BSS to which the station is	Proposed Response Response Status O		
SuggestedRemedy replace with "to ens	sure that the frame was transmitt	ed by anoth	er member of the same BSS"			
Proposed Response PROPOSED ACCE	Response Status W EPT IN PRINCIPLE. Resolved w	ith the resol	ution of comment 248.			

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 Page 32 of 112 5/18/2005 11:29:02 AM C/ 07 SC

May 2005			IEEE P802.11REV-a	m Draft 1.0) Comments -		doc	: IEEE 802.11-05/0482r0
C/ 07 SC 7.2.3.1 Stephens, Adrian	P 0	LO	MyBallot # 52	Cl 07 Ecclesine,	SC 7.2.3.10 , Peter	P 0	LO	MyBallot # 158
order of elements co the management fra	Comment Status X gs in order create potential future incidentally agrees with the num me format sections only list whic ents shall be transmitted in order	eric order o h elements	f the elements, I propose tha are present and there be a	Suggested	10 indicates 'Ver	Comment Status D ndor specific' information. On w	hat basis	is Order 10 included?
frames that include it	accepted, it is possible to go futh t. The management frame form hether any elements are present <i>Response Status</i> O	ats then ind		PROF standa rando	ard vendor-specit m values to carry mentations to ope	Response Status W Order 10 is the next sequenti- ic information element is prefer their proprietary information. T prate correctly along side of imp	able to ve his, at lea	endors independently choosing st, allows standard
Cl 07 SC 7.2.3.1 Ecclesine, Peter Comment Type TR Order 22 indicates '\	P 0 Comment Status D /endor specific' information, yet i	L 0 t was not pr	<i>MyBallot</i> # 150		Type TR	Comment Status D dded authentication extensibili	L 0 y; therefo	<i>MyBallot</i> # 16
SuggestedRemedy Justify or remove Proposed Response	at basis is Order 22 included? <i>Response Status</i> W PT. Order 22 is the next sequent	tial value av	ailable. The definition of a	Proposed PROF	e Vendor-specific Response	IE type 5 within Table 13. <i>Response Status</i> W 802.11i added extensibility in on frame.	a specific	direction. This did not limit th
standard vendor-spe random values to ca	cific information element is preferry their proprietary information. perate correctly along side of im	erable to ve This, at leas	ndors independently choosing st, allows standard	C/ 07 Ecclesine, Comment		P0 Comment Status D	LO	MyBallot # 159
Cl 07 SC 7.2.3.1 McCann, Stephen Comment Type E Change bar indicatio SuggestedRemedy Not sure what has be Proposed Response	Comment Status X n on Table 14	LO	MyBallot # <mark>576</mark>	Order Suggested Justify Proposed PROF standa rando	2 indicates 'Vene dRemedy y or remove Response POSED ACCEPT ard vendor-specil m values to carry mentations to ope	dor specific' information. On wh <i>Response Status</i> W Order 2 is the next sequential ic information element is prefer their proprietary information. T prate correctly along side of imp	value ava able to ve his, at lea	ailable. The definition of a endors independently choosinç ist, allows standard

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 33 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:02 AM
 C/ 07
 SC 7.2.3.11

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 07 SC 7.2.3.11, pp. 76 Aboba, Bernard	P76 L0	MyBallot # 17	C/ 07 SC Jalfon, Marc	7.2.3.12	P 0	L 0	MyBallot # 538		
Comment Type TR Comment S	Status D		Comment Type	TR	Comment Status D				
No text specifying the behavior of a S understand.	TA or AP receiving a ver	ndor-specific IE it does not	field has a var	ible length,	action field followed by ve and does not encode its	length (it is a			
SuggestedRemedy			- /		sible to follow it with anythi	ing.			
Add sentence to 7.2.3.11: "A STA rece specific IE it does not understand shall			SuggestedRemed Specify the le		dor specific field				
Proposed Response Response S	Status W		Proposed Respon	se	Response Status W				
PROPOSED ACCEPT IN PRINCIPLE	. See the resolution to	comment 178.			The "action details" field is				
C/ 07 SC 7.2.3.11, pp. 76 Kuehnel, Thomas	P76 L0	MyBallot # 177	determined by	commenter. The content of the action details is defined for the individual Action frame determined by the Category value. It is possible to determine the length of the action of entirely from the content of that field and the value of the Category.					
Comment Type TR Comment S	Status D		C/ 07 SC	7.2.3.12	P 0	LO	MyBallot # 160		
No text specifying the behavior of a S	TA or AP receiving a ver	ndor-specific IE it does not	Ecclesine, Peter						
understand.									
			Comment Type	TR	Comment Status D				
uggestedRemedy			Comment Type Order 2 indica	TR tes 'Vendor	Comment Status D	what basis is	s Order 2 included?		
Add sentence to 7.2.3.11: "A STA rece			Order 2 indica	ites 'Vendoi	Comment Status D r specific' information. On	what basis is	s Order 2 included?		
Add sentence to 7.2.3.11: "A STA rece specific IE it does not understand shall	Il ignore the vendor-spec		Order 2 indica SuggestedRemed	ites 'Vendoi y		what basis is	s Order 2 included?		
Add sentence to 7.2.3.11: "A STA rece specific IE it does not understand shal proposed Response Response S	Il ignore the vendor-spece Status W	cific IE."	Order 2 indica SuggestedRemea Justify or rem	ites 'Vendoi y ove	r specific' information. On	what basis is	s Order 2 included?		
Add sentence to 7.2.3.11: "A STA rece specific IE it does not understand shall	Il ignore the vendor-spece Status W	cific IE."	Order 2 indica SuggestedRemea Justify or rem Proposed Respon	tes 'Vendor y ove se	r specific' information. On Response Status W				
Add sentence to 7.2.3.11: "A STA rece specific IE it does not understand shall proposed Response Response S PROPOSED ACCEPT IN PRINCIPLE C/ 07 SC 7.2.3.12	Il ignore the vendor-spece Status W	cific IE."	Order 2 indica SuggestedRemed Justify or rem Proposed Respon PROPOSED standard veno random value	tes 'Vendor y ove se ACCEPT. (lor-specific s to carry th	r specific' information. On <i>Response Status</i> W Order 2 is the next sequer information element is pre- neir proprietary informatior	ntial value av eferable to ve n. This, at lea	railable. The definition o endors independently ch ast, allows standard		
specific IE it does not understand sha Proposed Response Response S PROPOSED ACCEPT IN PRINCIPLE	Il ignore the vendor-spect Status W See the resolution to the PO LO	cific IE." comment 178.	Order 2 indica SuggestedRemed Justify or rem Proposed Respon PROPOSED standard veno random value implementatio	tes 'Vendor y ove se ACCEPT. (lor-specific s to carry th	r specific' information. On <i>Response Status</i> W Order 2 is the next sequer information element is pre-	ntial value av eferable to ve n. This, at lea	railable. The definition o endors independently ch ast, allows standard		
Add sentence to 7.2.3.11: "A STA rece specific IE it does not understand shal roposed Response Response S PROPOSED ACCEPT IN PRINCIPLE 1 07 SC 7.2.3.12 tephens, Adrian	Il ignore the vendor-spect Status W See the resolution to o PO LO Status D ollowed by vendor speci ot encode its length (it is	cific IE." comment 178. <i>MyBallot #</i> 5 <u>3</u> ific elements. However the act	Order 2 indica SuggestedRemed Justify or rem Proposed Respon PROPOSED standard veno random value implementatio extensions.	tes 'Vendor y ove se ACCEPT. (lor-specific s to carry th	r specific' information. On <i>Response Status</i> W Order 2 is the next sequer information element is pre- neir proprietary informatior	ntial value av eferable to ve n. This, at lea	railable. The definition o endors independently ch ast, allows standard		
Add sentence to 7.2.3.11: "A STA recerspecific IE it does not understand shall Proposed Response Response S PROPOSED ACCEPT IN PRINCIPLE C/ 07 SC 7.2.3.12 Stephens, Adrian Comment Type TR Comment Type TR Comment Type TR Comment Type To Section indicates an action field for field has a varible length, and does not length). So it is not possible to follow	Il ignore the vendor-spect Status W See the resolution to o PO LO Status D ollowed by vendor speci ot encode its length (it is	cific IE." comment 178. <i>MyBallot #</i> 5 <u>3</u> ific elements. However the act	Order 2 indica SuggestedRemed Justify or rem Proposed Respon PROPOSED standard veno random value implementatio extensions.	tes 'Vendor y ove se ACCEPT. (lor-specific s to carry th	r specific' information. On <i>Response Status</i> W Order 2 is the next sequer information element is pre- neir proprietary informatior	ntial value av eferable to ve n. This, at lea	railable. The definition o endors independently ch ast, allows standard		
Add sentence to 7.2.3.11: "A STA rece specific IE it does not understand shall proposed Response Response S PROPOSED ACCEPT IN PRINCIPLE of 07 SC 7.2.3.12 tephens, Adrian comment Type TR Comment S This section indicates an action field for field has a varible length, and does not length). So it is not possible to follow	Il ignore the vendor-spec Status W See the resolution to o PO LO Status D ollowed by vendor speci ot encode its length (it is it with anything. 6.	cific IE." comment 178. <i>MyBallot #</i> 5 <u>3</u> ific elements. However the act is determined from the MPDU	Order 2 indica SuggestedRemed Justify or rem Proposed Respon PROPOSED standard veno random value implementatio extensions.	tes 'Vendor y ove se ACCEPT. (lor-specific s to carry th	r specific' information. On <i>Response Status</i> W Order 2 is the next sequer information element is pre- neir proprietary informatior	ntial value av eferable to ve n. This, at lea	railable. The definition o endors independently ch ast, allows standard		
Add sentence to 7.2.3.11: "A STA rece specific IE it does not understand shall proposed Response Response S PROPOSED ACCEPT IN PRINCIPLE of 07 SC 7.2.3.12 tephens, Adrian Comment Type TR Comment S This section indicates an action field for field has a varible length, and does not length). So it is not possible to follow SuggestedRemedy Remove vendor-specific from Table 10	Il ignore the vendor-spec Status W See the resolution to o PO LO Status D ollowed by vendor speci ot encode its length (it is it with anything. 6. es of vendor specific for	cific IE." comment 178. <i>MyBallot #</i> 5 <u>3</u> ific elements. However the act is determined from the MPDU	Order 2 indica SuggestedRemed Justify or rem Proposed Respon PROPOSED standard veno random value implementatio extensions.	tes 'Vendor y ove se ACCEPT. (lor-specific s to carry th	r specific' information. On <i>Response Status</i> W Order 2 is the next sequer information element is pre- neir proprietary informatior	ntial value av eferable to ve n. This, at lea	railable. The definition o endors independently ch ast, allows standard		

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 5/18/2005 11:

Page 34 of 112 5/18/2005 11:29:02 AM C/ 07 SC 7.2.3.12

IEEE P802.11REV-am Draft 1.0 Comments -

Cl 07 SC 7.2.3.12 P0 L0 MyBallot # 250 Tolpin, Alexander	Cl 07 SC 7.2.3.3 P 0 L 0 MyBallot # 151 Ecclesine, Peter
Comment Type TR Comment Status D This section indicates an action field followed by vendor specific elements. However the actic	Comment Type TR Comment Status D Order 2 indicates 'Vendor specific' information. On what basis is Order 2 included?
field has a variable length, and does not encode its length (it is determined from the MPDU length). So it is not possible to follow it with anything.	SuggestedRemedy Justify or remove
SuggestedRemedy	
Remove vendor-specific from Table 16. I recommend checking all occurrences of vendor specific for this bug.	PROPOSED ACCEPT. Order 2 is the next sequential value available. The definition of a
Proposed Response Response Status W PROPOSED REJECT. The "action details" field is variable length, as described by the commenter. The content of the action details is defined for the individual Action frames, as determined by the Category value. It is possible to determine the length of the action details	standard vendor-specific information element is preferable to vendors independently choosing random values to carry their proprietary information. This, at least, allows standard implementations to operate correctly along side of implementations with vendor-specific extensions.
entirely from the content of that field and the value of the Category.	Cl 07 SC 7.2.3.3, pp. 71 P0 L0 MyBallot # 1
C/ 07 SC 7.2.3.12, pp. 76 P76 L0 MyBallot # 18	Hassan, Amer
Aboba, Bernard	Comment Type TR Comment Status D
Comment Type TR Comment Status D	No text specifying what a STA should do if it encounters a Dissassociation frame including a vendor-specific IE it does not understand.
No text specifying the behavior of a STA or AP receiving a vendor-specific IE it does not understand.	SuggestedRemedy
SuggestedRemedy	Add sentence to 7.2.3.3: "A STA receiving a vendor-specific IE that it does not support shall ignore the vendor-specific IE."
Add sentence to 7.2.3.12: "A STA receiving an Action frame containing a vendor-specific IE it does not understand shall ignore the vendor-specific IE."	Proposed Response Response Status W
Proposed Response Response Status W	PROPOSED ACCEPT IN PRINCIPLE. See resolution to comment 178.
PROPOSED ACCEPT IN PRINCIPLE. See the resolution to comment 178.	Cl 07 SC 7.2.3.3, pp. 71 P71 L0 MyBallot # 11
CI 07 SC 7.2.3.12, pp. 76 P76 L0 MyBallot # 176	Aboba, Bernard
Kuehnel, Thomas	Comment Type TR Comment Status D
Comment Type TR Comment Status D	No text specifying what a STA should do if it encounters a Dissassociation frame including a vendor-specific IE it does not understand.
No text specifying the behavior of a STA or AP receiving a vendor-specific IE it does not understand.	SuggestedRemedy
SuggestedRemedy	Add sentence to 7.2.3.3: "A STA receiving a vendor-specific IE that it does not support shall ignore the vendor-specific IE."
Add sentence to 7.2.3.12: "A STA receiving an Action frame containing a vendor-specific IE it does not understand shall ignore the vendor-specific IE."	Proposed Response Response Status W
Proposed Response Response Status W	PROPOSED ACCEPT IN PRINCIPLE. See the resolution to comment 178.
PROPOSED ACCEPT IN PRINCIPLE. See the resolution to comment 178.	

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 35 of 112

 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/ 07
 SC 7.2.3.3, pp.

Bob O'Hara, Cisco Systems

IEEE P802.11REV-am Draft 1.0 Comments -

Cl 07 Kuehnel, T	SC 7.2.3.3, p homas	b. 71 P71	L 0	MyBallot # 178	<i>Cl</i> 07 Aboba, Be	SC 7.2.3.4, p rnard	p.71	P 71	L 0	MyBallot # 12	
	t specifying what	Comment Status D a STA should do if it encu s not understand.	ounters a Dissa	association frame including a		t specifying how		behave if it er		Association-Request f es not include a vendo	
Suggested	Remedy				IE.						
Add se	-		dor-specific IE	that it does not support shall		entence to 7.2.3.				iest frame including a v	
Proposed F	Response	Response Status W								fic IE. An AP shall fail t vendor-specific IE."	to
paragra				ence to the penultimate management frames, not just	Proposed		Response S	Status W		·	
<i>CI</i> 07 Ecclesine,	SC 7.2.3.4 Peter	P 0	LO	MyBallot # 152	Cl 07 Ecclesine,	SC 7.2.3.5 Peter		P 0	L 0	MyBallot # 153	
Comment 7 Order 9		Comment Status D or specific' information. C	n what basis is	s Order 9 included?	Comment Order		Comment S		what basis is	s Order 6 included?	
Suggested Justify	<i>Remedy</i> or remove				S <i>uggested</i> Justify	<i>Remedy</i> or remove					
standa randon	OSED ACCEPT. rd vendor-specifi n values to carry nentations to open		oreferable to ve on. This, at lea		standa rando	OSED ACCEPT ard vendor-special m values to carry nentations to ope	ic information e their proprieta	e next seque element is pre ry informatior	eferable to ve n. This, at lea	vailable. The definition endors independently c ast, allows standard ions with vendor-specif	hoosinç
C/ 07 Kuehnel, T	SC 7.2.3.4, p homas	0.71 P71	L 0	MyBallot # 179	<i>Cl</i> 07 Mike, More	SC 7.2.3.5		P 0	L 0	MyBallot # 197	
Comment T	Type TR	Comment Status D			Comment	Type ER	Comment	Status X			
	t specifying how a			Association-Request frame es not include a vendor specif	The lir		row is too bold		eliberate, the	re are some sections w	/here it
No text includir	ng a vendor-spec				Suggested	Domody					
No text includir IE.					Ouggesiet	irreineuy					
No text includir IE. Suggested	Remedy					e it. Also 7.2.3.7	, 7.2.3.8, 7.2.3.	.10, 7.2.3.11,	7.2.3.12		
No text includir IE. Suggested Add se specific	Remedy entence to 7.2.3.4 c IE it does not u	: "An AP receiving an As	e vendor-specit	est frame including a vendor- iic IE. An AP shall not fail to specific IE."		e it. Also 7.2.3.7	, 7.2.3.8, 7.2.3. Response S		7.2.3.12		
No text includir IE. Suggested Add se specific	Remedy entence to 7.2.3.4 c IE it does not u s an Association	: "An AP receiving an As iderstand shall ignore the	e vendor-specit	fic IE. An AP shall not fail to	Reduc	e it. Also 7.2.3.7			7.2.3.12		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 36 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed
 U/unsatisfied Z/withdrawn
 5/18/2005 11:29:02 AM
 C/ 07
 SC 7.2.3.5

 SORT ORDER:
 Clause, Subclause, page, line
 SC 7.2.3.5
 SC 7.2.3.5
 SC 7.2.3.5

Submission

May	2005
-----	------

C/ 07 SC 7.2.3.5, pp. 72 P72 L0 MyBallot # 13 Aboba, Bernard	C/ 07 SC 7.2.3.7 P0 L0 MyBallot # 155 Ecclesine, Peter
Comment Type TR Comment Status D No text specifying when a vendor-specific IE can be sent within an Association Response.	Comment Type TR Comment Status D Order 6 indicates 'Vendor specific' information. On what basis is Order 6 included?
SuggestedRemedy Add sentence to 7.2.3.5: "A STA receiving an Association Response frame including a vendor specific IE it does not understand shall ignore the vendor-specific IE. An AP shall not send a vendor-specific IE within an Association Response unless a corresponding vendor-specific IE is included within the Association Request." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See the resolution to comment 178.	SuggestedRemedy Justify or remove Proposed Response Response Status W PROPOSED ACCEPT. Order 6 is the next sequential value available. The definition of a standard vendor-specific information element is preferable to vendors independently choosin random values to carry their proprietary information. This, at least, allows standard implementations to operate correctly along side of implementations with vendor-specific extensions.
CI 07 SC 7.2.3.5, pp. 72 P72 L 0 MyBallot # 180 Kuehnel, Thomas Image: Compare the second sec	C/ 07 SC 7.2.3.8 P0 L0 MyBallot # 156 Ecclesine, Peter
Comment Type TR Comment Status D No text specifying when a vendor-specific IE can be sent within an Association Response. SuggestedRemedy Add sentence to 7.2.3.5: "A STA receiving an Association Response frame including a vendor specific IE it does not understand shall ignore the vendor-specific IE. An AP shall not send a vendor-specific IE within an Association Response unless a corresponding vendor-specific IE is included within the Association Request."	Comment Type TR Comment Status D Order 5 indicates 'Vendor specific' information. On what basis is Order 5 included? SuggestedRemedy Justify or remove Proposed Response Response Status W PROPOSED ACCEPT. Order 5 is the next sequential value available. The definition of a
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See the resolution to comment 178. Cl 07 SC 7.2.3.6 P0 L0 MyBallot # 154	standard vendor-specific information element is preferable to vendors independently chosing random values to carry their proprietary information. This, at least, allows standard implementations to operate correctly along side of implementations with vendor-specific extensions.
Ecclesine, Peter Comment Type TR Comment Status D Order 10 indicates 'Vendor specific' information. On what basis is Order 10 included? SuggestedRemedy Justify or remove Proposed Response Response Status W PROPOSED ACCEPT. Order 10 is the next sequential value available. The definition of a standard vendor-specific information element is preferable to vendors independently choosing	Cl 07 SC 7.2.3.8, pp. 73 P73 L0 MyBallot # 182 Kuehnel, Thomas Comment Type TR Comment Status D No text specifying the behavior of an AP receiving a vendor-specific IE it does not understand SuggestedRemedy Add sentence to 7.2.3.8: "An AP receiving a Probe Request frame including a vendor-specific IE it does not understand shall ignore the vendor-specific IE." Proposed Response Response Status W
random values to carry their proprietary information. This, at least, allows standard implementations to operate correctly along side of implementations with vendor-specific extensions.	PROPOSED ACCEPT IN PRINCIPLE. See the resolution to comment 178.

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 37 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:02 AM
 C/ 07
 SC 7.2.3.8, pp.

Bob O'Hara, Cisco Systems

Submission

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

Cl 07 SC 7.2.3.8, pp. 73 P73 L0 MyBallot # 15 Aboba, Bernard	Cl 07 SC 7.2.3.9 P 0 L MyBallot # 157 Ecclesine, Peter Ecclesine,
Comment Type TR Comment Status D No text specifying the behavior of an AP receiving a vendor-specific IE it does not understand SuggestedRemedy	Comment Type TR Comment Status D Order 22 indicates 'Vendor specific' information, yet it was not present in 802.11i or previous amendments. On what basis is Order 22 included?
Add sentence to 7.2.3.8: "An AP receiving a Probe Request frame including a vendor-specific IE it does not understand shall ignore the vendor-specific IE."	SuggestedRemedy Justify or remove
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See the resolution to comment 178. CI 07 SC 7.2.3.9 P 0 L 0 MyBallot # 406 Edwards, Bruce Edwards, Bruce Ballot # 406 Ballot # 406 Ballot # 406	 Proposed Response Response Status W PROPOSED ACCEPT. Order 22 is the next sequential value available. The definition of a standard vendor-specific information element is preferable to vendors independently choosing random values to carry their proprietary information. This, at least, allows standard implementations to operate correctly along side of implementations with vendor-specific
Comment Type ER Comment Status X Why is there a reserved order element (18)? Since these don't correspond to element IDs, the seems to be no purpose to this.	extensions. Cl 07 SC 7.2.3.9 P0 L0 MyBallot # 390 Jokela, Jari
SuggestedRemedy Remove it	Comment Type TR Comment Status D Order 18 is reserved but no explanation is given why it is reserved
Proposed Response Response Status O	SuggestedRemedy Explain or remove 18 as reserved
C/ 07 SC 7.2.3.9 P0 L0 MyBallot # 321	Proposed Response Response Status W PROPOSED ACCEPT. The table will be changed to decrease by 1 the value for the orders greater than 18.
Comment Type TR Comment Status D Table 12 indicated that the 18th (order 18) is reserved. It is not clear what that means. Does that mean that there is a reserved element there? How can you have a reserved slot	Cl 07 SC 7.2.3.9, pp. 75 P75 L 0 MyBallot # 14
SuggestedRemedy Remove the 18th entry and shift all the remaining entries up one. Proposed Response Response Status W PROPOSED ACCEPT.	Comment Type TR Comment Status D No text specifying when a vendor-specific IE can be sent within a Probe Response or how it is interpreted by the STA. SuggestedRemedy Add sentence to 7.2.3.9: "A STA receiving a Probe Response frame including a vendor-specific IE is interpreted by the III and IIII and IIIIIIIIIIIIIIIIIIIIII
	IE it does not understand shall ignore the vendor-specific IE." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See the resolution to comment 178.

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 38 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:03 AM
 C/ 07
 SC 7.2.3.9, pp.

IEEE P802.11REV-am Draft 1.0 Comments -

C/ 07 SC 7.2.3.9, pp. 75 P75 L 0 MyBallot # 181	C/ 07 SC 7.3.1.9 P0 L0 MyBallot # 86
Comment Type TR Comment Status D No text specifying when a vendor-specific IE can be sent within a Probe Response or how it is	Comment Type TR Comment Status D I think "Vendor Specific" (221/0xDD) should appear in the IE table not in the Status codes.
interpretted by the STA.	Further I donÆt think a vendor specific status code is required, an implementation should instead use "Unspecified failure" or just "Successful" as appropriate.
SuggestedRemedy Add sentence to 7.2.3.9: "A STA receiving a Probe Response frame including a vendor-specil IE it does not understand shall ignore the vendor-specific IE."	SuggestedRemedy Remove row for code 221 from Table 20 and insert the same into Table 22.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See the resolution to comment 178.	Proposed Response Response Status W PROPOSED ACCEPT.
C/ 07 SC 7.3.1.11 P0 L0 MyBallot # 375 Natanabe, Fujio	C/ 07 SC 7.3.1.9 P0 L0 MyBallot # 572 Bilstad, Mark
Comment Type ER Comment Status X According to 7.3 (within management frames, fixed-length mandatory frame body components are defined as fixed fields; variable length mandatory and all optional frame body components are defined as information elements.), 7.3.1.11 Action field belongs to the 7.3.1 Fixed field. However, actual action frame has variable length. SuggestedRemedy	Comment Type T Comment Status D In Table 20, a "vendor specific" status code is defined. This does not seem to be very usefu At a minimum, the OUI of the AP vendor must be derived somehow in this context, but there no text describing how this is done. Otherwise, this code has no other meaning than code 1 (unspecified failure). In fact, there does not seem to be any text about this status code that I can find. Even with the OUI derived somehow, this would still only allow 1 status code per vendor; again, not very useful.
Either 7.3 sentence will be changed to adequately include the action frame or make a new category for Action frame.	SuggestedRemedy
Proposed Response Response Status O	Remove this status code from the table; or, add frame fields and text describing how a vend can implement multiple vendor-specific status codes.
C/ 07 SC 7.3.1.4 P0 L0 MyBallot # 547 Hunter, David	Proposed Response Response Status W PROPOSED ACCEPT. This is an editing error. The value 221 is for the information elemen ID, not the status code. Remove the status code value 221 from table 20 and place it in table
Comment Type ER Comment Status X This seems to be the first place "ERP" is used outside of a table so the acronym should be	Cl 07 SC 7.3.1.9 P 0 L 0 MyBallot # 394 Kandala, Srinivas
defined here or at least a pointer included to the place where it is defined. SuggestedRemedy Review "EDD" with "E devided Data DLW (EDD)" in text	Comment Type TR Comment Status D Status code is assigned by another draft amendment with permission from ANA.
Replace "ERP" with "Extended Rate PHY (ERP)" in text. Proposed Response Response Status O	SuggestedRemedy Assign another number.
	 Proposed Response Response Status W PROPOSED REJECT. There is insufficient information in the comment to determine the status code value to which the commenter refers.

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 39 of 112

 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/ 07
 SC 7.3.1.9

Submission

Bob O'Hara, Cisco Systems

May 2005

C/ 07 SC 7.3.1.9 P0 L0 MyBallot Ecclesine, Peter	ot # 161 C/ 07 SC 7.3.1.9, pp. 83 P 83 L 0 MyBallot # 175 Kuehnel, Thomas
Comment Type TR Comment Status D Status code 221 indicates 'Vendor specific' information. On what basis is compared by the status of the stat	Comment TypeTRComment StatusDcode 221 included?No text specifying when a vendor-specific Status code can be sent, or how it is interpretted.
SuggestedRemedy Justify or remove Proposed Response Response Status W PROPOSED ACCEPT. See resolution to comment 86.	SuggestedRemedy Add sentence to 7.3.1.9: "A vendor-specific status code shall only be sent if a corresponding vendor-specific IE was included in the requested operation. A STA receiving a vendor-specifi IE it does not understand shall interpret it as though it had received a Status Code of 1 (Unspecified failure)."
Cl 07 SC 7.3.1.9 P0 L0 MyBallot Sanwalka, Anil	ot # 322 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. This status code has been deleted as a result of resolving other comments.
Comment Type TR Comment Status D In table 20 what does a vendor specific status code mean? One is probably particular vendor. Should this really be here or should this be in Table 22.	ly not enough for an C/ 07 SC 7.3.2 P0 L0 MyBallot # 372 Watanabe, Fujio
SuggestedRemedy Remove vendor specific status code.	Comment Type E Comment Status X Table 22 information element were explained at the next sections. However, the sequence of appearing information element (e.g. challenge text 7.3.2.8) are not well organized.
Proposed Response Response Status W PROPOSED ACCEPT. Cl 07 SC 7.3.1.9, pp. 83 P83 L0 MyBallot	SuggestedRemedy Revise the information element section in a sequence manner. (e.g., 7.3.2.8: challenge text element should be latter than 7.3.2.9 country information/7.3.2.10 hopping pattern).
Aboba, Bernard	Proposed Response Response Status O
Comment Type TR Comment Status D No text specifying when a vendor-specific Status code can be sent, or how SuggestedRemedy	v it is interpretted. C/ 07 SC 7.3.2 P0 L0 MyBallot # 324
Add sentence to 7.3.1.9: "A vendor-specific status code shall only be sent if vendor-specific IE was included in the requested operation. A STA receivin IE it does not understand shall interpret it as though it had received a Status (Unspecified failure)."	ing a vendor-specifi
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. This status code has been deleted resolving other comments.	SugaestedRemedy
	Proposed Response Response Status W PROPOSED ACCEPT.

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 40 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:03 AM
 C/ 07
 SC 7.3.2

May 2	2005
-------	------

IEEE P802.11REV-am Draft 1.0 Comments -

C/ 07 SC 7.3.2 P 0 L 0 MyBallot # 323 Sanwalka, Anil	C/ 07 SC 7.3.2.1 P0 L0 MyBallot # 87 Oakes, Ivan
Comment Type T Comment Status D In Table 22 the WPA element ID is not specified. Since it is already in wide use. We need to specify it. Since it is already in wide use. We need to specify it.	Comment Type E Comment Status X defn: "wildcard noun [C] in computing, a sign that is used to represent any letter or series of letters"
SuggestedRemedy Add 221 as the WPA element ID and specify it.	SuggestedRemedy Replace "the wildcard SSID" with "any SSID will match"
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. The element ID will be "vendor-specific", not WPA.	Proposed Response Response Status O
C/ 07 SC 7.3.2.1 P0 L0 MyBallot # 631 Olson, Tim	C/ 07 SC 7.3.2.14 P0 L0 MyBallot # 198 Mike, Moreton
Comment Type T Comment Status D Some Vendors have a feature where APs do not broadcast the SSID. TGk is adding a beaco measurement where RSSI is measured from a beacon or probe reponse. It would be useful to allow the SSID to remain wild in the probe response so that RSSI can be measured plus the SSID can remain hidden.	Comment Type TR Comment Status X Placing basic rates in the extended supported rates element is very dangerous because not a recipients will understand it, and may continually try to associate with APs that will continuous reject them. (I made this comment in 11g, but it was ignored *sigh*). SuggestedRemedy
SuggestedRemedy Add in "or Probe Response"à. Proposed Response	in this element only, the "basic rate bit" should be changed to be the "mandatory rate bit" and should be used to indicate rates that must be supported by STAs that support the PHY type in question. There is currently no way of signalling what these rates are, and they are required correct operation of the 11g changes.
PROPOSED REJECT. If this is required for work in TGk, that task groups should undertake crafting the text in their draft. This will reduce the likelihood of incompatible changes to the standard.	Proposed Response Response Status O
C/ 07 SC 7.3.2.1 P 0 L 0 MyBallot # 325	C/ 07 SC 7.3.2.25 P 0 L 0 MyBallot # 624 Godfrey, Tim 624
Comment Type TR Comment Status D The change from broadcast to wildcard does not clarify the description. Might as well specifically say what it does.	Comment Type E Comment Status X In figure 77, the 5th field is listed as "Pairwise Cipher Suite"
SuggestedRemedy Change "à indicate the wildcard SSID" to "à indicate that the transmitter of the frame is requesting probe response frames from all SSIDs."	SuggestedRemedy It should be "Pairwise Cipher Suite Count" Proposed Response Response Status O
Proposed Response Response Status W PROPOSED REJECT. This is a description of the value of the field. Its use is described in 10.3.2.1.2 and 11.1.3.2.1	

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 41 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:03 AM
 C/ 07
 SC 7.3.2.25

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 07 SC 7.3.2.25.3 Karcz, Kevin	3 P 0	L 0	MyBallot # 264	C/ 07 SC 7.3.2.26 Mike, Moreton	P 0	L 0	MyBallot # 199
			s." should not have a hyphen.	Comment Type ER ahceived	Comment Status X		
SuggestedRemedy edit	aConfighumberorg i KSARe	play-Counters	s" should not have a hyphen	SuggestedRemedy change to "achieved"			
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 07 SC 7.3.2.26	P 0	LO	MyBallot # 595	C/ 07 SC 7.3.2.26 Edwards, Bruce	P 0	L 0	MyBallot # 407
Comment Type E Change "à., so that res	Comment Status X erved information element II nteroperability is more easily		urped for non-standard the presence of non-standard	Comment Type ER The text says "in the s 80) but I am not sure. SuggestedRemedy Replace "x" with the p		think it is re	ferring to the next figure (Figur
à., so that reserved info	ormation element IDs are no nore easily achieved in the p		non-standard purposes and s on-standard information.	Proposed Response	Response Status O		
Proposed Response	Response Status O			C/ 07 SC 7.3.2.26 Reuss, Edward	P 0	L 0	MyBallot # 600
C/ 07 SC 7.3.2.26 Godfrey, Tim	P 0	L 0	MyBallot # 625	<i>Comment Type</i> E Spelling error - "ahcei	Comment Status X		
Comment Type E "achieved" is misspelled	Comment Status X d on the 3rd line. "x" is used	instead of "F	igure 80" on the 4th line.	SuggestedRemedy Change "ahceived" to	"achieved".		
SuggestedRemedy Correct				Proposed Response	Response Status 0		
Proposed Response	Response Status O						

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 42 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:03 AM
 C/ 07
 SC 7.3.2.26

May	2005
-----	------

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 07 SC 7.3.2.26 Newton, Paul	P 0	L 0	MyBallot # 596	<i>Cl</i> 07 <i>SC</i> 7.3.2.26 Chaplin, Clint	P 0	L 0	MyBallot # 425
Comment Type E Change "The informati	Comment Status X on element is in the standard	l format show	wn in x and requiresà."	Comment Type E "ahceived"	Comment Status X		
SuggestedRemedy "The information eleme	ent is in the standard format s	shown in figu	ire 80 and requiresà."	SuggestedRemedy "achieved"			
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 07 SC 7.3.2.26 Karcz, Kevin	P 0	L 0	MyBallot # 261	<i>Cl</i> 07 SC 7.3.2.26 Watanabe, Fujio	P 0	L 0	MyBallot # 376
Comment Type TR The value for the Elem	Comment Status D ent ID is not defined in the te	ext. EID also	needs to be added to Table 2	Comment Type E spell miss : ahceived	Comment Status X		
SuggestedRemedy Define the EID as 221	according to ANA.			SuggestedRemedy achieved			
Proposed Response PROPOSED ACCEPT table 22.	Response Status W IN PRINCIPLE. The vendor	-specific ele	ment ID is defined as 221 in	Proposed Response	Response Status O		
C/ 07 SC 7.3.2.26 Karcz, Kevin	P 0	L 0	MyBallot # 262	C/ 07 SC 7.3.2.26 Watanabe, Fujio	P 0	L 0	MyBallot # 377
Comment Type E "ahceived" is mispelled	Comment Status X			<i>Comment Type</i> E In Figure 80, the lengt	Comment Status X h of Vendor specific content n	nust be long	jer than 1
SuggestedRemedy edit				SuggestedRemedy revise the length of ve	ndor specific content to "n".		
Proposed Response	Response Status O			Proposed Response	Response Status O		
	PO	L 0	MyBallot # 263	C/ 07 SC 7.3.2.26 Chaplin, Clint	P 0	L 0	MyBallot # 426
Comment Type E "shown in x" should be	Comment Status X			Comment Type TR "shown in x"	Comment Status D		
				SuggestedRemedy "shown in Figure 80"			
SuggestedRemedy edit							

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 Page 43 of 112 5/18/2005 11:29:03 AM C/ 07 SC 7.3.2.26

Submission

May 2005			IEEE P802.11REV-an	n Draft 1.0) Comments -		doc	: IEEE 802.11-05/0482r0
C/ 07 SC 7.3.2.26 Chaplin, Clint	P 0	L 0	MyBallot # 427	<i>Cl</i> 07 Bilstad, Ma	SC 7.3.2.26 ark	P 0	LO	MyBallot # 571
Comment Type TR	Comment Status D			Comment	Туре Е	Comment Status X		
the information field (n)	mation field (n) shall be 3 < n) shall be 3 <= n <= 255."? It's		0	0	re 80, the vendo according to the	•	n with a siz	e of 1 octet, but this is variable
covers.				Suggested	dRemedy			
SuggestedRemedy See comment.				Repla	ce the length with	h the word "variable"		
				Proposed	Response	Response Status O		
Proposed Response	Response Status W IN PRINCIPLE. Change the	text to be "?	3 ~ n ~- 255"					
C/ 07 SC 7.3.2.26	P 0	L 0	MyBallot # 566	C/ 07 McCann, S	SC 7.3.2.26 Stephen	P 0	L 0	MyBallot # 577
Odman, Knut Comment Type E	Comment Status X			Comment Missin	51	Comment Status X		
	rd "achieved" spelled wrong				ng Figure in text "	Shown in x		
SuggestedRemedy correct typo				Suggested Chang	<i>dRemedy</i> ge to "shown in F	ïgure 80"		
Proposed Response	Response Status O			Proposed	Response	Response Status O		
C/ 07 SC 7.3.2.26	P 0	LO	MyBallot # 144	<i>Cl</i> 07 Mike, More	SC 7.3.2.26	P 0	L 0	MyBallot # 200
Visscher, Bert Comment Type E	Comment Status X			<i>Comment</i> It's pro	51	Comment Status D king it clear that unlike other ele	ements the	ese can be repeated.
typo: ahcieved instead	of achieved			Suggested	dRemedy			
SuggestedRemedy fix typo				eleme		ecific information fferent OUI value" append "or ic information elements".	may repea	t an OUI used in one or more
Proposed Response	Response Status O			Proposed	•	Response Status W		
				PROP "Each	VOSED ACCEPT	IN PRINCIPLE. The text alreatinformation element may have ement can have a different OU	a different	

doc: IEEE 802.11-05/0482r0

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

CI 07 SC 7.3.2.26; Figure 80; pg 1 P0 L0 MyBallot # 342 Hillman, Garth	C/ 07 SC 7.3.2.9 P0 L0 MyBallot # 373 Watanabe, Fujio Vatanabe, Fujio
Comment Type T Comment Status D octets count below 'vendor specific content' incorrect	Comment Type E Comment Status X p.91 Table 20.1a is not existing
SuggestedRemedy 1 -> 0-(n-3); also, you may want to indicate that 'n' covers the octets in fields OUI and Vendor Specific Content.	SuggestedRemedy It should be Table 23.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See rsolution to comment 427.	Proposed Response Response Status O
C/ 07 SC 7.3.2.26; pg 113 P0 L0 MyBallot # 341	C/ 07 SC 7.3.2.9 P0 L0 MyBallot # 305 Kruys, Jan
	Comment Type TR Comment Status D
Comment Type E Comment Status X spelling error; incorrect reference SuggestedRemedy	The coverage class definition is too crude to be useful at intermediate ranges. With longer range, increased guard time may be needed but this is dependent on the antenna type. Therefore Coverage class should be split in two components: Guardtime and Propagation til
ahceived -> achieved: x -> Figure 80	SuggestedRemedy
Proposed Response Response Status O	Change Coverage Class to include a guardTime parameter. Use the lower 5 bits for CCA ar change the definition of the multiplier to: $0-9 = 1$ usec, $10-12 = 2$ usec, $21-31 = 3$ usec. Add Guard class as the upper three bits. Coverage Class: $0-7$, multiplier for the basic guardtime (GI) defined in Table 109.
Cl 07 SC 7.3.2.9 P0 L0 MyBallot # 374	Proposed Response Response Status W
Watanabe, Fujio Comment Type E Comment Status	PROPOSED ACCEPT IN PRINCIPLE. Jan to provide a submission with the specific text changes, before approval of this comment.
, allow control of BSS diameter	Cl 08 SC 8. P0 L0 MyBallot # 501
SuggestedRemedy	Engwer, Darwin
delete.	Comment Type TR Comment Status D
Proposed Response Response Status O	After the combination of the base standard, the subsequent ammendments and more focuse individual changes, there remain unresolved inconsistencies between the text in this clause other clauses. This applies to this clause and all subclauses thereof.
	SuggestedRemedy Resolve the inconsistencies.
	Proposed Response Response Status W PROPOSED ACCEPT.

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 45 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:03 AM
 Page 45 of 12

 SORT ORDER:
 Clause, Subclause, page, line
 5/18/2005 11:29:03 AM
 C/ 08
 SC 8.

May 2	2005
-------	------

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 08 SC 8. Kruys, Jan	P 0	L 0	MyBallot # 302	Cl 08 SC 8.2.1.2 P 0 L 0 MyBallot # 626 Godfrey, Tim				
	Comment Status D			Comment Type E Comment Status X Footnote 16 appears on the next page				
sense of "shall do X' that require verificati	". it should be clear that these " ion testing etc.	shalls" do no	ot define mandatory statement	SuggestedRemedy				
SuggestedRemedy				Correct				
the MLME. It may b	elated material should be remove or more efficient to add a note to is made to the MLME interface	o the beginr	ing of this Clause that states	Proposed Response Response Status O				
understood that thes 10". None of the stat	se refer to the informative mode tements "shall" are to be co	ls e.g. as pr	esented in Annex"was clause	CI 08 SC 8.2.2.2.1 P 0 L 0 MyBallot # 378 Watanabe, Fujio				
occurrences to whic	Response Status W CT. There is insufficient detail in h the commenter objects. The ot. Note: compliance requirem	commenter i	s solicited to supply this detail	Comment Type ER Comment Status X Information items: is not as same as Table 13 Authentication frame body. Authentication algorithm dependent information (none) must mean the challenge text in Table 13. There statement about the status code.				
C/ 08 SC 8. Mike, Moreton	P 0	L 0	MyBallot # 184	SuggestedRemedy revised baed on Table 13				
Comment Type T WEP is now so thore	Comment Status D bughly broken that it should be	removed fro	m the standard.	Proposed Response Response Status O				
SuggestedRemedy Remove WEP and d	lirect readers to the 1999 version	on of the star	ndard for details.	Cl 08 SC 8.2.2.2.1 P0 L0 MyBallot # 379 Watanabe, Fujio				
	Response Status W CT. WEP is used in currently de s beyond the scope of this task			Comment Type TR Comment Status D What Status code should be used for the first frame of Open System Authentication. No statements				
CI 08 SC 8.1.4	P 0	LO	MyBallot # 283	SuggestedRemedy				
Kruys, Jan				make a clear statement (status code)				
Comment Type E sub h) - the sentence	Comment Status X e does not flow			Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. There is a clear statement in Table 14 that the Stat				
SuggestedRemedy Add "assumed to be	after "the transmitter is"			Code is reserved in the first frame of the open authentication algorithm. 7.1.1 clearly stat reserved fields are transmitted with a value of zero. In Table 13, delete "and set to 0".				
Proposed Response	Response Status 0							

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 46 of 112

 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/ 08
 SC 8.2.2.2.1

May 2005 IEEE P802.11REV-a	IEEE P802.11REV-am Draft 1.0 Comments -			
C/ 08 SC 8.2.2.2.2 P 0 L 0 MyBallot # 380 Watanabe, Fujio	C/ 08 SC 8.2.2.3.2 P0 Watanabe, Fujio	L 0 MyBallot # 381		
Comment Type ER Comment Status X Information items is not as same as Table 13. Also, there is not same sequence order as Tat 13 shows.	Comment Type E Comment Status X The result code of the requested authenticationà			
SuggestedRemedy revise based on Table 13	SuggestedRemedy The status code of the requested authenticationà			
Proposed Response Response Status O	Proposed Response Response Status O			
C/ 08 SC 8.2.2.3 P0 L0 MyBallot # 186	C/ 08 SC 8.2.2.3.2 P0 Watanabe, Fujio	L 0 MyBallot # 382		
Mike, Moreton Comment Type TR Comment Status D Shared key authentication is known to enable dictionary attacks.	Comment Type E Comment Status X Authentication algorithm dependent information= The text in Tale 13.	authentication results means challenge		
SuggestedRemedy	SuggestedRemedy			
Strongly deprecate it, and say that it should only be used for backwards compatibility in	revised based on Table 13			
situations where dictionary attacks are defended against.	Proposed Response Response Status O			
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. In 8.2, the statement that is requested by the				
commenter already appears. Cl 08 SC 8.2.2.3.2 P0 L0 MyBallot # 383	CI 08 SC 8.2.2.3.3 P0 Watanabe, Fujio P0 P0 </td <td>L0 MyBallot # <u>384</u></td>	L 0 MyBallot # <u>384</u>		
Watanabe, Fujio	Comment Type TR Comment Status D			
Comment Type TR Comment Status D What Status code should be used for the second frame of Shared System Authentication. No	What Status code should be used for the third frame S statements	Shared System Authentication. No		
statements	SuggestedRemedy			
SuggestedRemedy	make a clear statement (status code)			
make a clear statement (status code)	Proposed Response Response Status W			
Proposed Response Response Status W PROPOSED REJECT. There is a clear statement in Table 14 that the Status Code is reserve in the first (this is what is assumed to be meant by the commenter) frame of the shared key authentication algorithm. 7.1.1 clearly states that reserved fields are transmitted with a value zero.	PROPOSED REJECT. There is a clear statement in in the third frame of the shared key authentication algo fields are transmitted with a value of zero.			

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 Page 47 of 112 5/18/2005 11:29:03 AM C/ 08 SC 8.2.2.3.3

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 08 SC 8.2.2.3.4 P0 Watanabe, Fujio	L 0	MyBallot # 385	<i>Cl</i> 08 Kruys, Jar	SC 8.4 .	.2	P 0	L 0	MyBallot # 285
Comment Type E Comment Status X The result code of the requested authentication			Comment 0	Type E		Comment Status X		
SuggestedRemedy The status code of the requested authenticationà			Suggested Insert	-	e befor	e NOTES and spell "Notes".		
Proposed Response Response Status O			Proposed	Response		Response Status O		
Cl 08 SC 8.3.3.3 P0 Kruys, Jan	LO	MyBallot # 284	<i>Cl</i> 08 Ptasinski,	SC 8.5. Henry	.1.3	P 0	L 0	MyBallot # 464
Comment Type E Comment Status X Text and figure are inconsistent SuggestedRemedy In figure 101 change "encrypted MPDU" to "encapsul	lated"		"The (seem	concept is u GTK shall b to conflict.	unnece e deriv Also, c	Comment Status D ssary, and is defined inconsist ed from the GMK" and "The G lause 3 defines the GMK as: " e used to derive a group tempo	TK shall 3.51 gro	be a random number", which up master key (GMK): An
Proposed Response Response Status O				GMK and		e, or at least clarify that GMK i age of 'shall' w.r.t. the GMK.	s one po	ssible method for deriving the
C/ 08 SC 8.4.10 P0 Ptasinski, Henry	L 0	MyBallot # 465	Proposed	Response	-	<i>Response Status</i> W Remove "NOTES" and the nur	nbers in	front of the note items. Chan
<i>Comment Type</i> TR <i>Comment Status</i> D Deletion of PTKSA and GTKSA as described in first paragraph is too aggressive and results i unnecessary loss of connectivity. In an ESS, when a STA attempts to roam to a new AP, the STA should not delete the PTKSA or GTKSA for the old AP until a successful association response is received from the new AP. It should not delete the PTKSA or GTKSA e.g. when				change "de lerive" to "T llowing". C is derived".	picts of he Auth hange Chan	odate in the first note. In the sine possible" to "depicts an examenticator derives". Change "Hishall be a random" to "is a range "(TK) shall be" to "(TK) is".	mple of a lere, the dom". C	a". Change "The Autenticator following" to "In this example Change "GTK shall be derived
invoking authentication with an AP to which it current SuggestedRemedy	19 15 1101 855		C/ 08 Chaplin, C	SC 8.5.	.2	P 0	L 0	MyBallot # 428
Relax the requirements for flushing PTKSA and GTK minimized.	(SA such tha	at loss of connectivity is	Comment	Туре Т		Comment Status D		
minimized. Proposed Response Response Status W PROPOSED ACCEPT. Replace "When an SME receives or invokes of any of the MLME association, reassociation, disassociation, authentication, or deauthentication request or indication primitives, or if it believes that it has drifted out of radio range of another STA, it will delete some security associations." with "When a non-AP STA SME receives a successful MLME association or reassociation confirm primitive or receives or invokes an MLME disassociation or deauthentication primitive, it will delete some security associations. Similarly when an AP SME receives an MLME association or reassociation primitive, or receives or invokes an MLME disassociation or deauthentication primitive it will delete some				not have a i d <i>Remedy</i> e define, or <i>Response</i> POSED ACC Packet Typ	refernce point to CEPT I be (1 by the tex	 " is used only once in this drage to a definition in any other state a definition. Response Status W N PRINCIPLE. Correct Figure te) and Packet Body Length (2 t immediately below Figure 10 	indard. 107 to i bytes) a	include the Protocol Version (above the Descriptor Type in t

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general		Page 48 of 1	110
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdra	wn		
SORT ORDER: Clause, Subclause, page, line	5/18/2005 11:29:03 AM	CI 08	SC 8.5.2

Submission

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

<i>Cl</i> 08 SC 8.5.3.7 <i>P</i> 0 <i>L</i> 0 <i>MyBallot</i> # 461 McClellan, Kelly	C/ 08 SC 8.5.7 P 0 L 0 MyBallot # 287 Kruys, Jan
Comment Type E Comment Status X This clause contains the statement: "None of the protocols defined by IEEE Std 802.11, Edition, and IEEE P802.1X-REV permit the AS, the Authenticator, the Supplicant, or either STA to verify these assumptions." Since this refers to the previous version of the standard, it should be updated. SuggestedRemedy	Comment Type E Comment Status X 999 See preceding
Change the informative reference from "1999 Edition" to "current edition" or "200_ editio statement is still true.	
Proposed Response Response Status O	C/ 08 SC 8.5.8 P 0 L 0 MyBallot # 288 Kruys, Jan
Cl 08 SC 8.5.6 P 0 L 0 MyBallot # 286 Kruys, Jan	Comment Type T Comment Status D There seems to be an inconsistency in that the 256 bit output is dereived from a 256 RN input together with other parameters - clarification would help.
Comment Type E Comment Status X This section describes the implementation of an entity that falls outside the scope of 802 should be moved to an informative annex. SuggestedRemedy 0	SuggestedRemedy 11.1 See preceding wrt to placement of this text - maybe H.6 is better place? Proposed Response Response Status W PROPOSED REJECT. The PRF-256 is described in clause 8.5.1.1. The output of this function is 256 bits. It is not clear what needs to be clarified.
Proposed Response Response Status O	C/ 08 SC 8.7 P0 L0 MyBallot # 289 Kruys, Jan
C/ 08 SC 8.5.6.3 P 0 L 0 MyBallot # 54 Stephens, Adrian	Comment Type E Comment Status X This section describes implementation
Comment Type E Comment Status X The pseudocode is inconsistent. Left arrow and an equals sign are both used to repress assignment. SuggestedRemedy The assignments of 802.1X::portValid on page 186 should be replaced with a left arrow symbol. Check also elsewhere this variable is used. Make pseudo-code snippets in the state machines (e.g. Figure 118) consistent. Propage Status 0	SuggestedRemedy It should either be part of the SDL pseudo code or moved to an informative annex. Proposed Response Response Status O
Proposed Response Response Status O	

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 49 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:04 AM
 Page 49 of 122

 SORT ORDER:
 Clause, Subclause, page, line
 C/ 08
 SC

Bob O'Hara, Cisco Systems

SC 8.7

May 2005			IEEE P802.11REV-	am Draft 1.	0 Comments	-	doc	: IEEE 802.11-05/0482r0
C/ 09 SC 9. Karcz, Kevin	P 0	L 0	MyBallot # 273	C/ 09 McCann,	SC 9. Stephen	P 0	L 0	MyBallot # 578
Comment Type E References to many cla 1st paragraph of clause SuggestedRemedy	Comment Status X lause numbers within the draft are e 9 for example	e precee	ded by incorrect values. See	Suggeste	v section 9 intern	Comment Status X al section reference numbers on reference numbers, e.g. 20		e mal-formed, e.g. 2019.2
edit Proposed Response	Response Status O				l Response	Response Status O		
<i>Cl</i> 09 <i>SC</i> 9. Chaplin, Clint	P 0	LO	MyBallot # 429	C/ 09 Watanab	SC 9. e, Fujio	PO	LO	MyBallot # 386
of each is provided. Fra Multirate support is add in 2269.7. Finally, a nu reordered or discarded	Comment Status D expanded on in 2019.2 and 2159. agmentation and defragmentatio dressed in 2249.6. The allowable umber of additional restrictions to d are described in 2289.8." Those erences in this chapter have three	n are con frame e limit the e referer	vered in 2239.4 and 2249.5. exchange sequences are listec cases in which MSDUs are lices are incorrect; it seems as	Suggeste Revis	e functions are e edRemedy se to the proper r I Response	xpanded on in 2019.2 and 21 number <i>Response Status</i> O	59.3à2239.4	k
SuggestedRemedy Correct		0 1		<i>Cl</i> 09 Engwer, I	SC 9.	P 0	L 0	MyBallot # 502
Proposed Response PROPOSED ACCEPT C/ 09 SC 9.	Response Status W The editor will correct all of the P 0	cross re	oferences. <i>MyBallot</i> # 627	Commen After indivi	<i>t Type</i> TR the combination dual changes, th		istencies be	mendments and more focusec tween the text in this clause a ereof.
Godfrey, Tim Comment Type E	Comment Status X			Suggeste	dRemedy lve the inconsist			
are introduced in 9.1. T	bers are incorrect throughout clar These functions are expanded on ound throughout this clause			Proposed	Response	Response Status W		
SuggestedRemedy Truncate the first 3 dig	its of references above 2000							
Proposed Response	Response Status O							

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 50 of 112

 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/ 09
 SC

SC 9.

May 2005			IEEE P802.11REV-am	Draft 1.0	Comments -		doc	: IEEE 802.11-05/0482r0
<i>Cl</i> 09 <i>SC</i> 9. Stephens, Adrian	P 0	LO	MyBallot # 55	<i>CI</i> 09 Kruys, Jan	SC 9.1.3	PO	L 0	MyBallot # 290
Comment Type ER	Comment Status X some very high clause numbers ir	this section	n (e.g. 2019.2) . While we're a	Comment 7	51	Comment Status X ce" and "concurrently" are conf	using and	not consistent with the rest of
	I suspect we won't be into this kin					d down in this standard	using and	
SuggestedRemedy				Suggested	Remedy			
Suspect, check ar	nd correct references that start with	n a 4-digit st	ring.			ombined use of DCF and PCF		
Proposed Response	Response Status O			in 2159		Iternate, with a CFP followed by	a CP. Ir	lis is described in greater deta
				Proposed F	Response	Response Status O		
C/ 09 SC 9.1.1	I P O	L 0	MyBallot # 430	_				
Chaplin, Clint				C/ 09	SC 9.1.4	P 0	LO	MyBallot # 347
Comment Type TR				Black, Simo	on			
Incorrect section r	ererences			Comment 7	Type TR	Comment Status D		
SuggestedRemedy Correct						ted MSDU, plus MAC header a s are not received from LLC - c		
Proposed Response	Response Status W			Suggested	Remedy			
PROPOSED REJI refers.	ECT. It is unclear from the comme	ent to which	references the commenter	receive	ed from the MLN	directed MSDU is received fror IE that would result in a length 'hreshold when the MAC heade	greater th	an
C/ 09 SC 9.1.1	I P O	LO	MyBallot # 387		U shall be fragn			
Watanabe, Fujio Comment Type ER	Comment Status X			Proposed F	Response OSED ACCEPT	Response Status W		
see 2029.2.1, in 1				C/ 09	SC 9.1.4	Р 0	L 0	MyBallot # 391
SuggestedRemedy				Jokela, Jari		۲U	20	Myballot # 391
revise to the prope	er number			Comment 7		Comment Status D		
Proposed Response	Response Status O			Text sa	51	and MAC header and FCS are	received f	rom the LLC. This is not true,
				Suggested	Remedy			
				Fix.	-			
				Proposed F PROPC		Response Status W	n to comm	nent 347.

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 Page 51 of 112 5/18/2005 11:29:04 AM C/ 09 SC 9.1.4 SORT ORDER: Clause, Subclause, page, line

Bob O'Hara, Cisco Systems

Raissinia,	SC 9.1.4 Ali	P 0	L 0	MyBallot # 434
Comment	Type TR	Comment Status D		
field.		shows that the LLC layer needs is generated within MAC, I don		
Suggeste	dRemedy ove FCS from tha	at added text		
	Response	Response Status W		
		T IN PRINCIPLE. See resolution	on to comm	ent 347.
C/ 09	SC 9.1.4	PO	LO	MyBallot # 56
Stephens	Adrian	-	-	,
Comment	Type TR	Comment Status D		
lt is p	ossible to receive	n 9.1.4 only partly captures the e an MSDU + Header + FCS le ation for privacy is longer than	ess than the	
Suggeste	•			
transf good	ormational proce naming of the ot	ut an architectural weakness. Ness that takes entities of type A piects along these processes. agrity check" and MSDU+option	and turns t If we did, v	hem into type B. We don't have have names for things like
optior	nal MSDU integri	on is to fix this para so that an I ity check, plus optional encaps han the threshold.		o
011001				
	Response	Response Status W		
Proposed	•	Response Status W T IN PRINCIPLE. See resolution	on to comm	ent 347.
Proposed	•	•	on to comm	ent 347. <i>MyBallot</i> # 408
Proposed PROF	SC 9.1.4	TIN PRINCIPLE. See resolution		
Proposed PROF CI 09	SC 9.1.4 Bruce	TIN PRINCIPLE. See resolution		
Proposed PROF C/ 09 Edwards, Comment The to confu	POSED ACCEPT SC 9.1.4 Bruce <i>Type</i> ER ext "When a dire sing. I don't think	T IN PRINCIPLE. See resolution	L 0 and FCS is S are receiv	MyBallot # 408 received from the LLCà" is red from the LLC. I think that
Proposed PROF C/ 09 Edwards, Comment The to confu	SC 9.1.4 SC 9.1.4 Bruce <i>Type</i> ER ext "When a dire sing. I don't think trying to say so	TIN PRINCIPLE. See resolution P0 Comment Status X cted MSDU plus MAC header (that the MAC header and FC	L 0 and FCS is S are receiv	MyBallot # 408 received from the LLCà" is red from the LLC. I think that
Proposed PROF Cl 09 Edwards, Comment The to confu text is Suggeste	POSED ACCEPT SC 9.1.4 Bruce Type ER ext "When a dire sing. I don't think trying to say so dRemedy	TIN PRINCIPLE. See resolution P0 Comment Status X cted MSDU plus MAC header (that the MAC header and FC	L0 and FCS is S are receiv MPDU pro	MyBallot # 408 received from the LLCà" is red from the LLC. I think that iduced from an MSDU.

CI 09	SC 9.1.4	P 0	L 0	MyBallot # 201	

Mike, Moreton

Comment Type TR Comment Status D

"When a directed MSDU, plus MAC header and FCS, is received from the LLC or a directed MMPDU is received from the MLME with a length greater than

adot11FragmentationThreshold," (1) LLC doesn't send "MSDU , plus MAC header and FCS" i just sends MSDU. (2) What about MSDUs received from the DS?

SuggestedRemedy

The reason why it's difficult to write good text to describe this is that it's trying to combine MMPDU and MSDU fragmentation when those things are at totally different levels of the architecture. If the whole of 9.1.4 was rewritten to talk in terms of MPDU fragmentation (as in fact the second paragraph already does) then it would flow much more easily.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. See the resolution to comment 347.

Comment T Protect	Туре Е	Comment Status V		
	ction Mechanisr	Comment Status X		
Suggested Chang		mechanisms for non-ERP re	eceivers".	
Proposed I	Response	Response Status O		
Cl 09 Stephens, J	SC 9.10 Adrian	P 0	L 0	MyBallot # 65
Comment The he	51	Comment Status X	y to ERP-OFI	DM phy usage.
Suggested Call it I		tection Mechanism		
Proposed I	Response	Response Status O		

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 5/18/2005 11:29:04 AM

Page 52 of 112 5 11:29:04 AM *CI* **09** SC **9.10**

Submission

May 2005 IEEE P802.11REV-a	am Draft 1.0 Comments - doc: IEEE 802.11-05/0482
C/ 09 SC 9.2 P 0 L 0 MyBallot # 57 Stephens, Adrian 57 <th>C/ 09 SC 9.2 P 0 L 0 MyBallot # 58 Stephens, Adrian 58</th>	C/ 09 SC 9.2 P 0 L 0 MyBallot # 58 Stephens, Adrian 58
Comment Type ER Comment Status X "CS shall be performed by both physical and virtual mechanisms".	Comment Type TR Comment Status D "à shall only cconsider the frame body as the basis of a possible indicationà"
Sigh, Sigh, Sigh.	This is utterly meaningless.
Shall is supposed to introduce a normative requirement, and it is as clear a mud what this is introducing. It sounds more like a normative requirement on the writers of the protocol to	SuggestedRemedy Remove containing sentence.
include destails to support both physical and virtual mechanisms.	Proposed Response Response Status W
SuggestedRemedy	PROPOSED ACCEPT IN PRINCIPLE. See resolution to comment 251.
Turn this into an informative note.	C/ 09 SC 9.2 P0 L0 MyBallot # 388
This is also a general problem. I just happened to light on this and it exceeded my intertia	Watanabe, Fujio
threshold. I recommend scanning for "shall" and replacing with "is" where it clearly describes normative behaviour introduced elsewhere in the document. Ideally each use of the word sha (and there are 2000+) should relate to an entry in the PICS.	Comment Type E Comment Status X Thus a STA can be unable to receive from the originating STA, yet stillà. Object is missing.
	1103 a OTA can be unable to receive nonn the originating OTA, yet Stilla. Object is missing.
	SuggestedRemedy Make a clear statement. Receive a data frame from the originating STA, à
Proposed Response Response Status O	SuggestedRemedy
Proposed Response Response Status O C/ 09 SC 9.2 P0 L0 MyBallot # 597 Newton, Paul	SuggestedRemedy Make a clear statement. Receive a data frame from the originating STA, à Proposed Response Response Status O
Proposed Response Response Status O Cl 09 SC 9.2 P0 L0 MyBallot # 597 Newton, Paul Comment Type E Comment Status X BasicRate is referred to as "aBasicRateSet" it seems the rest of the mib variables are now	SuggestedRemedy Make a clear statement. Receive a data frame from the originating STA, à
Proposed Response Response Status O Cl 09 SC 9.2 P0 L0 MyBallot # 597 Newton, Paul Comment Type E Comment Status X BasicRate is referred to as "aBasicRateSet" it seems the rest of the mib variables are now referenced with the prefix of do11? Status X	SuggestedRemedy Make a clear statement. Receive a data frame from the originating STA, à Proposed Response Response Status O Cl 09 SC 9.2 P0 L0 MyBallot # 389
Proposed Response Response Status O Cl 09 SC 9.2 P0 L0 MyBallot # 597 Newton, Paul Comment Type E Comment Status X BasicRate is referred to as "aBasicRateSet" it seems the rest of the mib variables are now referenced with the prefix of do11? SuggestedRemedy	SuggestedRemedy Make a clear statement. Receive a data frame from the originating STA, à Proposed Response Response Status O Cl 09 SC 9.2 P0 L0 MyBallot # 389 Watanabe, Fujio Comment Type E Comment Status X If the return CTS is not detected by the STA originatingà. more quickly than if the long data
Proposed Response Response Status O Cl 09 SC 9.2 P0 L0 MyBallot # 597 Newton, Paul Comment Type E Comment Status X BasicRate is referred to as "aBasicRateSet" it seems the rest of the mib variables are now referenced with the prefix of do11? SuggestedRemedy Change from "aBasicRateSet" to "dot11BasicRateSet" Comment Status Set" Comment Status Set"	SuggestedRemedy Make a clear statement. Receive a data frame from the originating STA, à Proposed Response Response Status O C/ 09 SC 9.2 PO LO MyBallot # [389] Watanabe, Fujio Comment Type E Comment Status X
Proposed Response Response Status O Cl 09 SC 9.2 P0 L0 MyBallot # 597 Newton, Paul Comment Type E Comment Status X BasicRate is referred to as "aBasicRateSet" it seems the rest of the mib variables are now referenced with the prefix of do11? SuggestedRemedy Change from "aBasicRateSet" to "dot11BasicRateSet" Comment Status Set" Comment Status Set"	SuggestedRemedy Make a clear statement. Receive a data frame from the originating STA, à Proposed Response Response Status O Cl 09 SC 9.2 P0 L0 MyBallot # 389 Watanabe, Fujio Comment Type E Comment Status X If the return CTS is not detected by the STA originatingà. more quickly than if the long data This statement is not clear. It means that the retransmission of RTS will have a higher prior
Proposed Response Response Status O Cl 09 SC 9.2 P0 L0 MyBallot # 597 Newton, Paul Comment Type E Comment Status X BasicRate is referred to as "aBasicRateSet" it seems the rest of the mib variables are now referenced with the prefix of do11? SuggestedRemedy Change from "aBasicRateSet" to "dot11BasicRateSet"	SuggestedRemedy Make a clear statement. Receive a data frame from the originating STA, à Proposed Response Response Status O Cl 09 SC 9.2 P0 L0 MyBallot # 389 Watanabe, Fujio Comment Type E Comment Status X If the return CTS is not detected by the STA originatingà. more quickly than if the long data This statement is not clear. It means that the retransmission of RTS will have a higher prior transmission.

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 53 of 112

 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/ 09
 SC 9.2

IEEE P802.11REV-am Draft 1.0 Comments -

Cl 09 SC 9.2 Tolpin, Alexander	P 0	L 0	MyBallot # 251	Cl 09 SC 9.2.3.4 P 0 L 0 MyBallot # 59 Stephens, Adrian 59 50
Comment Type TR "à shall only consider This is utterly meanin SuggestedRemedy Remove containing s Proposed Response	•	f a possible	indicationà"	Comment Type ER Comment Status X This single para is symptomatic of "specification by normative verbosity" (that's the PC version of the expression). The problem is we're trying to say something complex, and we heap normative sentence on normative sentence. What we actually need is some diagrammatic representation (such as a state machine) that normative. This makes life a lot easier for the non-native English speakers, and makes interpretation less error-prone.
	T IN PRINCIPLE. Replace "or to LLC" with "not indicate a dat			
Cl 09 SC 9.2.1 Oakes, Ivan Comment Type E bad reference "2089.	P 0 Comment Status X 2.5.4", also in 9.2.2 three times	L 0 and elsewl	<i>MyBallot</i> # 83	 (The SDL in the Annexes is not adequate for this purpose, although SDL would be one valid representation of a state machine that could be used at this point (but It wouldn't be my first choice)). Proposed Response Response Status O
SuggestedRemedy Fix cross references Proposed Response	Response Status O			Cl 09 SC 9.2.3.4 P 0 L 0 MyBallot # 601 Reuss, Edward X X X
C/ 09 SC 9.2.10 Sanwalka, Anil	PO	L 0	MyBallot # 328	Word choice error "later" versus "latter" SuggestedRemedy Change "later" to "latter".
	Comment Status D S is not the same as the old va ed (shall) the new equation mus			
Proposed Response	Response Status W T. The new equation for EIFS	resolves to	exactly the same value	e for the

PROPOSED REJECT. The new equation for EIFS resolves to exactly the same value for the legacy .11 and the .11b PHYS as the original equation.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general Page 54 of 112 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn 5/18/2005 11:29:04 AM C/ 09 SC SORT ORDER: Clause, Subclause, page, line

SC 9.2.3.4

May	2005
-----	------

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

Cl 09 SC 9.2.3.4 P0 L0 MyBallot # 202	C/ 09 SC 9.2.5.1 P0 L0 MyBallot # 634
Mike, Moreton	Inoue, Yasuhiko
Comment Type TR Comment Status D	Comment Type E Comment Status X
It concerns me that 11e have made significant changes in the area of EIFS. Which will take precedence? In fact both seem to be attempting to solve different problems with EIFS (TGe slot reference point, TGm the NAV problem), so neither will be that desirable.	Wrong reference: tl "à when a STA desires to initiate the initial frame of one of the frame exchanges described ir 2269.7"
SuggestedRemedy I think the big error in EIFS is triggering it at all when NAV is set. EIFS is really a mechanisn	"à the random backoff algorithm described in 2069.2.5.2 shall be followed."
reduce the chance of you trashing the ACK when you don't receive the data frame correctly. Well if you're going to keep quiet for that period anyway then there's no point in triggering it. rule becomes: (1) On incorrect frame RX switch to EIFS if EIFS > NAV + DIFS (or the TGe	"There are conditions, specified in 2069.2.5.2 and 2099.2.5.5, where the random backoff algorithm"
equiv). (2) Then use EIFS just like you would DIFS, (3) correct frame RX always changes ba to DIFS.	30 SuggestedRemedy 2269.7> 9.7
Proposed ResponseResponse StatusWPROPOSED ACCEPT.The current text says exactly what you requested.	2069.2.5.2> 9.2.5.2
C/ 09 SC 9.2.4 P0 L0 MvBallot # 203	2099.2.5.5> 9.2.5.5
CI 09 SC 9.2.4 P 0 L 0 MyBallot # 203 Mike, Moreton	Proposed Response Response Status O
Comment Type TR Comment Status D	
I seem to remember there was an interpretation that described the CW having a double peak with default values - maybe it would be a good idea for the diagram to show this?	C/ 09 SC 9.2.5.2 P 0 L 0 MyBallot # 635
SuggestedRemedy See comment	Comment Type E Comment Status X Wong reference:
Proposed Response Response Status W PROPOSED REJECT. It is not at all clear what the commenter is requesting. If there is an	"The backoff procedure shall also be invoked when a transmitting STA infers a failed transmission as defined in 2119.2.5.7 or 2129.2.8."
interpretation request or response on this issue, please cite it.	Similar corrections will be necessary for the rest of this subclause.
C/ 09 SC 9.2.4 P0 L0 MyBallot # 272 Karcz, Kevin	SuggestedRemedy 2119.2.5.7> 9.2.5.7
Comment Type E Comment Status X	2129.2.8> 9.2.8
page 205, line 3, "2269.7" should be "9.7"	Proposed Response Response Status O
SuggestedRemedy edit	
Proposed Response Response Status O	

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 55 of 112

 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/ 09
 SC 9.2.5.2

May 2005			IEEE P802.11REV-a	am Draft 1.0 Comments	S -	doc	: IEEE 802.11-05/0482r0
<i>Cl</i> 09 SC 9.2.5.3 Raissinia, Ali	PO	LO	MyBallot # 435	C/ 09 SC 9.2.5. 4 Miki, Morgan	P 0	L 0	MyBallot # 252
9.2.5.7. Similarly, in 4th	Comment Status X rd paragraph regarding the se paragraph the referred section non problem in several more s Response Status O	n is 2129.2	2.5.7 This should be section 2.8 and it should be 9.2.8. It	SuggestedRemedy Remove aPHY-RX-S Proposed Response PROPOSED REJEC	Comment Status D er aPHY-RX-STARTDelay. See START-Delay from the paragrap <i>Response Status</i> W CT. The equation is correct. The be correct. This parameter acc	h e actual valu	ues for this parameter in some
SuggestedRemedy	P 0 Comment Status X the ACK procedure, as boks like an acrobat cut and p . (There's also a 2189.3.2.2. In Response Status 0		<i>MyBallot</i> # 204	Cl 09 SC 9.2.5.4 Inoue, Yasuhiko Comment Type E Wong reference. SuggestedRemedy	Comment Status X ferred clause number. Response Status 0	LO	MyBallot # <u>636</u>
textual description of it. SuggestedRemedy Refer to where it's desc Proposed Response	P0 Comment Status D definitions of PHY-RX-STAR ribed, or add a description. Response Status W A description of the paramet	·		SuggestedRemedy Remove aPHY-RX-S Proposed Response PROPOSED REJEC	Comment Status D Comment Status D PHY-RX-STARTDelay. See my START-Delay from the paragrap Response Status W CT. The equation is correct. The be correct. This parameter accord	h e actual valu	ues for this parameter in some

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 56 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:04 AM
 C/ 09
 SC 9.2.5.4

 SORT ORDER:
 Clause, Subclause, page, line
 SC 9.2.5.4
 SC 9.2.5.4

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 09 SC 9.2.5.4 Edney, Jon	P 0	L 0	MyBallot # 249	Cl 09 SC 9.2.5.4 P 0 L 0 MyBallot # 30 Ohtani, Yoshihiro				
Comment Type E Could not find section 2	Comment Status X 2189.3.2.2			Comment Type TR Comment Status D No reason to keep aPHY-RX-STARTDelay. See my comments on section 9.2.5.7 and 9.2.8.				
SuggestedRemedy Correct section referen	се			SuggestedRemedy Remove aPHY-RX-START-Delay from the paragraph				
Proposed Response	Response Status O			Proposed Response Response Status W PROPOSED REJECT. The equation is correct. The actual values for this parameter in some of the PHYs are not be correct. This parameter accounts for the length of the preamble and				
Cl 09 SC 9.2.5.4 Mike, Moreton Comment Type T	P 0 Comment Status X	L 0	MyBallot # 206	PLCP header. Cl 09 SC 9.2.5.4 P 0 L 0 MyBallot # 436 Raissinia, Ali Raissinia, Ali				
I think the stuff allowing you to clear NAV if you don't get the CTS should be deleted. It was reasonable when the standard was first written, but with all the protection of different modulations floating around, I don't think it's sensible any more. And deleting it won't actually effect interoperability. SuggestedRemedy				Comment Type TR Comment Status D The added text includes aPHY-RX-START-Delay. Not sure why we need this addition. SuggestedRemedy Please clarify or Remove it.				
See comment Proposed Response	Response Status 0			Proposed ResponseResponse StatusWPROPOSED ACCEPT. Definition of the term will be added to the PHY clauses.				
C/ 09 SC 9.2.5.4 Mike, Moreton	PO	LO	MyBallot # 205	C/ 09 SC 9.2.5.7 P0 L0 MyBallot # 326 Sanwalka, Anil Comment Type TR Comment Status D				
Comment Type T Comment Status D Why place the requirement on the MAC to know which PHYs can make use of PHY-CCARESET and which can't? Why not always send it, and leave it to the PHY what it does with it? SuggestedRemedy Delete "for those PHYs that provide a PHY-CCARESET.request primitive"				Specifying a required (shall) value for ctsTimeout is problematic now. There are a number of implementation in existence that probably wait longer. This would make them non-compliant SuggestedRemedy Change the sentence to state "with a value greater than à" Proposed Response Response Status W PROPOSED REJECT. If a STA has waited for a period as specified and then an additional				
				length of time, the STA has waited for the initial specified time. It is compliant.				

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 57 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed
 U/unsatisfied Z/withdrawn
 5/18/2005 11:29:04 AM
 C/ 09
 SC 9.2.5.7

Bob O'Hara, Cisco Systems

C/ 09 SC 9.2.5.7 P0 L0 MyBallot # 437 Raissinia, Ali	Cl 09 SC 9.2.5.7 P0 L0 MyBallot # 31 Ohtani, Yoshihiro
Comment Type TR Comment Status D The added text includes aPHY-RX-START-Delay. Not sure why we need this addition.	Comment Type TR Comment Status D The paragraph starting with "After transmitting an RTS frame," is very problematic.
SuggestedRemedy Please clarify or Remove it. Proposed Response Response Status W PROPOSED ACCEPT. The parameter will be defined in the PHY clauses.	 For example, in case of successful sequence of 11b, PHY-RXSTART.indication will occur after 202us (=10us:aSIFSTime + 144us:preamble + 48us:PLCPHeader) after PHY-TXEND.confirm while CTSTimeout = 30us. This means that CTSTimeout will be expired even for successful case and it makes no sense. For OFDM PHYs, I don't understand where 24us comes from for aPHY-RX-START-Delay. It looks like CTSTimeout is too long (almost CTS frame length) and there could be the case that another STA rather than sending/receiving STA might interrupt this sequence. After careful consideration based on above observation, the point of my suggestions are follow - CTSTimeout will be expired if a PHY-CCA.indication(busy) does not occuer. No reason to keep aPHY-RX-START-Delay. aRXTXTurnaroundTime/aMACProccessingDelay should be taken into account for precise calculation.
	SuggestedRemedy Replace "a value of aSIFSTime + aSlotTime + aPHY-RX-START-Delay" with "a value of aSIFSTime + aSlotTime - aRXTXTurnaroundTime - aMACProccessingDelay"
	Replace "If a PHY-RXSTART.indication does not occur" with "If a PHY-CCA.indication(busy) does not occur".
	Replace "If a PHY-RXSTART.indication does occur" with "If a PHY-CCA.indication(busy) doe occur"
	Replace "the STA shall wait for the corresponding PHY-RXEND.indication to determine whether the RTS transmission was successful." with "the STA shall wait for the correspondin PHY-RXSTART.indication and PHY-RXEND.indication to determine whether the RTS transmission was successful."
	Proposed ResponseResponse StatusWPROPOSED REJECT.See resolution to comment 22.

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 58 of 112

 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/ 09
 SC 9.2.5.7

C/ 09 Mike, More	SC 9.2.5.7 ton	P 0	L 0	MyBallot # 208	<i>CI</i> 09 Miki, Mo
	X-START-Delay	Comment Status D seems to increase the chang number of collisions.	ce of mis-ali	gned slots for OFDM phys, an	<i>Commer</i> The this
	e PHY-RX-STAR	T-Delay to rounded up to a v ange the units from time to s		er of slot times. (maybe	For 1440 3008
	, OSED REJECT.	Response Status W The values for the PHY-RXS ou continue to believe this p		ay are being corrected. Please ists.	For CTS send
<i>Cl</i> 09 Black, Sime	SC 9.2.5.7 on	P 0	L 0	MyBallot # 348	Thus
PHY. V end of (0us). I into the RX-ST the tim packet HRDS	sure how the rev Ve are told in clau an RTS frame we f the CTS had oc preamble. The H ART.ind at the er er). I thought may to the PHY-RX-S SS PHY (a secon	e wait for aSIFS (10us) and a cured, after SIFS correctly, MAC doesn't know about the nd of the PCLP header (this by aPHY-RX-START-Delay START, but then that doesn't	Y-RX-STAR aSlot (20us) we would (ir cTS (ignor is what is us was the le make sens is that aPHY	RT-Delay is Ous. So after the + aPHY-RX-START-Delay accorrectly) call a timeout 20us ing a CCA indication) until PH sed later in the clause to stop ngth of time from the start of the e with it being 0 for the 4-RX-START-Delay is given a	Suggest Rep aSIF Propose PRC be d

SuggestedRemedy

Please reviewà and at least define what the reference points for aPHY-RX-START-Delay are.

Proposed Response Response Status W

PROPOSED ACCEPT. PHY-RX_Start-Delay will be correctly defined and assigned a proper value in the PHY clauses.

2/ 09 SC 9.2.5.7 P0 L0 MyBallot # 253

Miki, Morgan

Comment Type TR Comment Status D

The modification "with a value of aSIFSTime + aSlotTime + aPHY-RX-START-Delay" made ir this clause adds the followig issues:

For 11b systems, PHY-RXSTART.indication will be 202us (=10us:aSIFSTime + 144us:preamble + 48us:PLCPHeader) after PHY-TXEND.confirm. However, CTSTimeout is 30us and CTSTimeout will be expired even for successful transmissions.

For OFDM PHYs, it is unclear why 24us (aPHY-RX-START-Delay) is necessary. It looks like CTSTimeout is too long (almost CTS frame length) and there could be a 3rd STA which is not sending/receiving, that might interrupt this sequence.

Thus, the suggestion is to consider aRXTXTurnaroundTime and aMACProccessingDelay instead.

SuggestedRemedy

Replace "a value of aSIFSTime + aSlotTime + aPHY-RX-START-Delay" with "a value of aSIFSTime + aSlotTime - aRXTXTurnaroundTime - aMACProccessingDelay"

Proposed Response Response Status W

PROPOSED REJECT. The PHY-RX-START-Delay term is correct, and for the 11b PHY will be defined and assigned a correct value.

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 5/18/2005 11:25

Page 59 of 112 5/18/2005 11:29:04 AM C/ 09 SC 9.2.5.7

Submission

IEEE P802.11REV-am Draft 1.0 Comments -

May 2005 IEEE P802.11REV-a	m Draft 1.0 Comments -	doc: IEEE 802.11-05/0482r0
C/ 09 SC 9.2.5.7 P0 L0 MyBallot # 22 Gohda, Wataru	Cl 09 SC 9.2.5.8 P0 Raissinia, Ali	L 0 MyBallot # 438
Comment Type TR Comment Status D The paragraph starting with "After transmitting an RTS frame," is very problematic.	Comment Type TR Comment Status D The added text includes aPHY-RX-START-Delay. N	ot sure why we need this addition.
For example, in case of successful sequence of 11b, PHY-RXSTART.indication will occur afte 202us (=10us:aSIFSTime + 144us:preamble + 48us:PLCPHeader) after PHY-TXEND.confirm while CTSTimeout = 30us. This means that CTSTimeout will be expired even for successful case and it makes no sense.	SuggestedRemedy Please clarify or Remove it. Proposed Response Response Status W PROPOSED ACCEPT. See resolution to comment	437.
For OFDM PHYs, I don't understand where 24us comes from for aPHY-RX-START-Delay. It looks like CTSTimeout is too long (almost CTS frame length) and there could be the case that another STA rather than sending/receiving STA might interrupt this sequence.	Cl 09 SC 9.2.8 P 0 Ohtani, Yoshihiro P 0	L 0 MyBallot # 32
After careful consideration based on above observation, the point of my suggestions are follow - CTSTimeout will be expired if a PHY-CCA.indication(busy) does not occuer. - No reason to keep aPHY-RX-START-Delay. - aRXTXTurnaroundTime/aMACProccessingDelay should be taken into account for precise calculation.	Comment Type TR Comment Status D It seems that the definition of ACKTimeout is illegally successful frame exchange sequence for 802.11b PI 202us (= aSIFSTime + preamble + PLCPHeader) a ACKTimeout = 30us. This means that ACKTimeout v	HY, PHY-RXSTART.indication occurs fter PHY-TXEND.confirm, while
SuggestedRemedy	SuggestedRemedy	
Replace "a value of aSIFSTime + aSlotTime + aPHY-RX-START-Delay" with "a value of	Fix it.	
aSIFSTime + aSlotTime - aRXTXTurnaroundTime - aMACProccessingDelay"	Proposed Response Response Status W	
Replace "If a PHY-RXSTART.indication does not occur" with "If a PHY-CCA.indication(busy) does not occur".	PROPOSED ACCEPT. See resolution to comment	22.
Replace "If a PHY-RXSTART.indication does occur" with "If a PHY-CCA.indication(busy) does occur"		
Replace "the STA shall wait for the corresponding PHY-RXEND.indication to determine whether the RTS transmission was successful." with "the STA shall wait for the corresponding PHY-RXSTART.indication and PHY-RXEND.indication to determine whether the RTS transmission was successful."		
Proposed Response Response Status W PROPOSED REJECT. The value for the PHY-RXSTART-Delay is not correct for the 11b PHY. It will be corrected.		

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 5/18/2005 11:29:04

Page 60 of 112 5/18/2005 11:29:04 AM C/ 09 SC 9.2.8

IEEE P802.11REV-am Draft 1.0 Comments -

CI 09	SC 9.2.8	P 0	L 0	MyBallot # 23	CI 09	SC 9.2.8	P 0	L 0	MyBallot # 327
Gohda, Wa	ataru				Sanwalka,	Anil			

C

Gohda, Wataru

Comment Type TR Comment Status D

The paragraph starting with "After transmitting an MPDU that requires an ACK frame as a response" is very problematic.

For example, in case of successful sequence of 11b, PHY-RXSTART.indication will occur after 202us (=10us:aSIFSTime + 144us:preamble + 48us:PLCPHeader) after PHY-TXEND.confirm while ACKTimeout = 30us. This means that ACKTimeout will be expired even for successful case and it makes no sense.

For OFDM PHYs, I don't understand where 24us comes from for aPHY-RX-START-Delay. It looks like ACKTimeout is too long (almost ACK frame length) and there could be the case tha another STA rather than sending/receiving STA might interrupt this sequence.

After careful consideration based on above observation, the point of my suggestions are follow

- ACKTimeout will be expired if a PHY-CCA.indication(busy) does not occuer.
- No reason to keep aPHY-RX-START-Delay.

- aRXTXTurnaroundTime/aMACProccessingDelay should be taken into account for precise calculation.

SuggestedRemedy

Replace "a value of aSIFSTime + aSlotTime + aPHY-RX-START-Delay" with "a value of aSIFSTime + aSlotTime - aRXTXTurnaroundTime - aMACProccessingDelay"

Replace "If a PHY-RXSTART.indication does not occur" with "If a PHY-CCA.indication(busy) does not occur".

Replace "If a PHY-RXSTART.indication does occur" with "If a PHY-CCA.indication(busy) does occur"

Replace "the STA shall wait for the corresponding PHY-RXEND.indication to determine whether the MPDU transmission was successful." with "the STA shall wait for the corresponding PHY-RXSTART.indication and PHY-RXEND.indication to determine whether th MPDU transmission was successful."

Proposed Response Response Status W

PROPOSED ACCEPT. See resolution to comment 22.

comment Type	TR	Comment Status D	
0		(about the second	

Specifying a required (shall) value for ackTimeout is problematic now. There are a number of implementation in existence that probably wait longer. This would make them non-compliant

SuggestedRemedy

Change the sentence to state "with a value greater than à"

Proposed Response		Response Status W			
PROPOSED REJECT.		See resolution to comment 326.			
C/ 09 SC 9.2.8		P 0	L 0	MyBallot # 209	
Mike, Mo	reton				
Commen	t Type TR	Comment Status X			

PHY-RX-START-Delay seems to increase the chance of mis-aligned slots for OFDM phys, an hence will increase the number of collisions.

SuggestedRemedy

Require PHY-RX-START-Delay to rounded up to a whole number of slot times. (maybe simplest would be to change the units from time to slots)

Response Status 0 Proposed Response

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

Page 61 of 112 5/18/2005 11:29:04 AM C/ 09 SC 9.2.8

May 2005 IEEE P802.11REV	/-am Draft 1.0 Comments - doc: IEEE 802.11-05/0482
C/ 09 SC 9.2.8 P 0 L 0 MyBallot # 254 Miki, Morgan	Cl 09 SC 9.2.8 P0 L0 MyBallot # 349 Black, Simon
Comment Type TR Comment Status D The modification "with a value of aSIFSTime + aSlotTime + aPHY-RX-START-Delay" made in this clause adds the followig issues: For 11b systems, PHY-RXSTART.indication will be 202us (=10us:aSIFSTime + 144us:preamble + 48us:PLCPHeader) after PHY-TXEND.confirm. However, ACKTimeout is 30us and ACKTimeout will be expired even for successful transmissions. For OFDM PHYs, it is unclear why 24us (aPHY-RX-START-Delay) is necessary. It looks like ACKTimeout is too long (almost ACK frame length) and there could be a 3rd STA which is not sending/receiving, that might interrupt this sequence.	Comment Type TR Comment Status X See this authors comment on CTSTimeout (9.2.5.7). Same applies here for ACKTimeout. SuggestedRemedy See this authors comment on CTSTimeout (9.2.5.7). Same applies here for ACKTimeout. Proposed Response Response Status O Cl 09 SC 9.3 P0 L0 MyBallot # 462 McClellan, Kelly Kelly Kelly Kelly
Thus, the suggestion is to consider aRXTXTurnaroundTime and aMACProccessingDelay instead. SuggestedRemedy Replace "a value of aSIFSTime + aSlotTime + aPHY-RX-START-Delay" with "a value of aSIFSTime + aSlotTime - aRXTXTurnaroundTime - aMACProccessingDelay" Proposed Response Response Status W PROPOSED REJECT. See resolution to comment 22.	Comment Type E Comment Status X The reference " Figure 122 (in 1999.1)" should be changed to the correct reference. SuggestedRemedy Change to "Figure 122 (in Clause 9.1)". Proposed Response Response Status O
Cl 09 SC 9.2.8 P 0 L 0 MyBallot # 210 Mike, Moreton Comment Type TR Comment Status D "without regard to the busy/idle state of the medium." Does this mean CS busy, or physical medium busy? The spec could do with being clearer on this in a lot of places. SuggestedRemedy replace with "without regard to the busy/idle state of the CS mechanism" Proposed Response Response Status W PROPOSED ACCEPT.	Cl 09 SC 9.3 P0 L0 MyBallot # 60 Stephens, Adrian Comment Type TR Comment Status X "Frames sent during under the DCF Function". This is a normative specification for the DCF. It is present in the DCF. It is redundant (and ungrammatical). SuggestedRemedy Remove this sentence. Proposed Response Response Status O

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 Page 62 of 112 5/18/2005 11:29:04 AM C/ 09 SORT ORDER: Clause, Subclause, page, line

SC 9.3

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 09 SC 9.3.2.1 Sanwalka, Anil	P 0	LO	MyBallot # 329	C/ 09 Kruys		SC 9.3.3.3	P 0	LO	MyBallot # 292
Comment Type T This change again pote	Comment Status X entially make legacy complian plementations that do not do		n-compliant. In this cas	Comi e I don' S	nent Ty _l ame as	preceding -	Comment Status X		
SuggestedRemedy Change the shall to a s				r	•	emedy irst "shall" with sponse	"should" Response Status O		
Proposed Response	Response Status O								
C/ 09 SC 9.3.2.1	P 0	L 0	MyBallot # 61	C/ 09 Stept	ens, Ac	SC 9.3.3.3 Irian	P 0	LO	MyBallot # 62
	Comment Status X are buffered multicast à fran nsmitted after a beacon with			se thes power S <i>ug</i> g	estedRe	m-sized MAC emedy	Comment Status X frame, expanded by WEP" T WEP" with something non-sp	U	
SuggestedRemedy I think this may be part multicasts with a valu	ly redundant with 9.3.3.1 "if t	here are ass	sociated à the broadcas	,	sed Re	sponse	Response Status O		
	escrive in 9.3.3.1 what hapee	ns if there a	re no assocaited STA	n PS Kruys		SC 9.3.3.4	P 0	L 0	MyBallot # 293
Proposed Response	Response Status 0				nent Typ ne last :		Comment Status X s not specify a testable require	ement	
C/ 09 SC 9.3.3.2	P 0	L 0	MyBallot # 291		es <i>tedRe</i> place fi	emedy irst "shall" with	n "should"		
Kruys, Jan Comment Type T This section is advisory	Comment Status X y, there are other ways to ach	nieve the rec	quired operational beha		sed Re	sponse	Response Status O		
SuggestedRemedy All "shall" must be char									
	Response Status O								

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 63 of 112

 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/ 09
 SC 9.3.3.4

May 2005		IEEE P802.11REV	-am Draft 1.0 Comments		doc:	IEEE 802.11-05/0482r0
C/ 09 SC 9.3.4.2 Stephens, Adrian	P 0	L 0 MyBallot # 63	C/ 09 SC 9.4 Stephens, Adrian	P 0	LO	MyBallot # 64
requiring them to stay	awake". This is misleading. It is powersaving. However, if it doe	TIM that initiated the CFP), but not true only if the device wants to receive s not, the AP would attempt to send it	Comment Type TR "before WEP processi security encapsulation SuggestedRemedy Replace with a generic Proposed Response		ans to refer t	to expansion as a result of th
Proposed Response	Response Status O		C/ 09 SC 9.4	P 0	L 0	MyBallot # 211
SuggestedRemedy	P0 Comment Status X uph the change from fragment to N	L0 MyBallot # 330	a huge number of case	Comment Status X DU/MMPDU is a conceptual m es it's preceded by "MPDU or" not clear whether MMPDU is n very confused.	which alone	is evidence that something
Reject the changes fro	om fragment to MPDU. Response Status O		Given it's unlikely anyo	one has the time to really sort t this section, so back out the c <i>Response Status</i> O		ually prefer the original text
C/ 09 SC 9.4 Odman, Knut	P 0	L 0 MyBallot # 567	C/ 09 SC 9.6	PO	L 0	MyBallot # 296
Comment Type E Page 223. Check all c become "a MPDU", w	Comment Status X occurances of "an MPDU". The ch hich is wrong.	anges will sometimes cause it to	Kruys, Jan Comment Type T	Comment Status X		
SuggestedRemedy correct typos			SuggestedRemedy	ass or Type? The table in 9.6.1	I says "class"	n
Proposed Response	Response Status O		0 Proposed Response	Response Status O		

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 Page 64 of 112 5/18/2005 11:29:05 AM C/ 09 SC 9.6

	May	2005
--	-----	------

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 09 SC 9.6	P 0	LO	MyBallot # 295	C/ 09	SC 9.6	PO	LO	MyBallot # 212	
Kruys, Jan		-•	1.19	Mike, Mor			-•		
Comment Type T	Comment Status X			Comment	Type ER	Comment Status X			
The fifth para refers to	a disfunctional but not "illega	the implementation		evision marking got messed up.	of the first occurence of "is of the	e same m	odulation type class" seems to		
SuggestedRemedy				Suggeste	• •				
replace "shall" with "sl				00		k through, "class" underlined.			
Proposed Response	Response Status O				Response	Response Status O			
C/ 09 SC 9.6	PO	LO	MyBallot # 294						
Kruys, Jan				C/ 09 Edwards,	SC 9.6	P 0	L 0	MyBallot # 409	
Comment Type T	Comment Status X					Comment Status X			
The fourth para mention confusing.	ons "rate selection mechanism	n" the others	para's do not. This is		51	not explicitly defined in section 9	9.6.1. The	y are kind of defined the footno	
SuggestedRemedy				Suggeste	•	age.			
First describe the con then list the exception	ditions in which the rate select	tion mechan	ism determines the rate and		-	tion type is in section 9.6.1			
Proposed Response	Response Status O			Proposed	Response	Response Status O			
C/ 09 SC 9.6	P 0	LO	MyBallot # 297	C/ 09	SC 9.6.1	P 0	LO	MyBallot # 127	
Kruys, Jan				Myles, An					
Comment Type T	Comment Status X			Comment	51	Comment Status X			
impllementations will t	set down a complex set of alte be exceedingly simple - use th be extra degrees of choice offe	e same rate	and other PHY settings as th		make up a mod	between modulation type and c ulation class.	lass. It ap	opears that multiple modulation	
received message. The extra degrees of choice offered to the implementor by these two para' add complexity but do little or nothing to improve performance. In any case, the responding PI					However, modulation type is never explicity defined				
should be allowed to r	make the assumption that wha	atever rate it	received at, is a valid rate.	Suggeste	dRemedy				
SuggestedRemedy				Defin	e modulation typ	e			
	s by a modified version of the l l be sent using the same rate a			Proposed	Response	Response Status O			
Proposed Response	Response Status O								

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 65 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:05 AM
 Page 65 of 12

 SORT ORDER:
 Clause, Subclause, page, line
 SC 9.6.1

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 09 SC 9.6.1 Olson, Tim	P 0	LO	MyBallot # 632	C/ 09 SC 9.6.1 Karcz, Kevin	P 0	L 0	MyBallot # 265
Comment Type E Clause reference 224	Comment Status X 9.6 does not look right.			Comment Type E Page 225, "2249.6" sl	Comment Status X hould be "9.6"		
SuggestedRemedy Correct				SuggestedRemedy edit			
Proposed Response	Response Status O			Proposed Response	Response Status O		
<i>Cl</i> 09 <i>SC</i> 9.6.1 Mike, Moreton	P 0	LO	MyBallot # 213	<i>Cl</i> 09 SC 9.6.1 Sanwalka, Anil	P 0	LO	MyBallot # 331
bar. SuggestedRemedy Make it consistent.	Comment Status X seems a bit strange - only part Response Status O	of it is unde	erlined, and only part has a sic		Comment Status X s very confusing, with an incorre nfusing as the left hand cell in "		
Proposed Response	Response Status U			Proposed Response	Response Status O		
C/ 09 SC 9.6.1	P 0	L 0	MyBallot # 445	C/ 09 SC 9.6.1.1	P 0	L 0	MyBallot # 350
Myles, Andrew Comment Type TR The text distinguishes types make up a mod	Comment Status X s between modulation type and lulation class.	class. It ap	pears that multiple modulation	Black, Simon <i>Comment Type</i> E The reference in the f	Comment Status X irst line of this clause is not me	aningful	Wy Dallot # 350
Comment Type TR The text distinguishes types make up a mod	s between modulation type and	l class. It ap	pears that multiple modulation	Comment Type E		aningful	Ny Danot # 330
Comment Type TR The text distinguishes types make up a mod However, modulation	s between modulation type and lulation class. type is never explicity defined	l class. It ap	pears that multiple modulation	Comment Type E The reference in the f SuggestedRemedy		aningful	Ny Danot # 1990

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 66 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed
 U/unsatisfied Z/withdrawn
 5/18/2005 11:29:05 AM
 C/ 09
 SC 9.6.1.1

 SORT ORDER:
 Clause, Subclause, page, line
 Sort 0.000
 SC 9.6.1.1
 SC 9.6.1.1

May 2005

May 2005			IEEE P802.1	1REV-an	n Draft 1.0 Com	ments -		doc	IEEE 802.11-05/048	32r0
C/ 09 SC 9.61. Myles, Andrew	P 0	LO	MyBallot # 128		CI 09 SC Sanwalka, Anil	9.7	PO	L 0	MyBallot # 332	
Comment Type ER There is no need to hav SuggestedRemedy Incorporate 9.6.1 into 9. Proposed Response	Comment Status X re the material in 9.6.1 in a se .6 Response Status O	eparate sub	-section			was preto to do this ly ange to ta				
Cl 09 SC 9.61. Myles, Andrew Comment Type ER There is no need to hav SuggestedRemedy Incorporate 9.6.1 into 9. Proposed Response	P0 Comment Status X re the material in 9.6.1 in a se .6 Response Status O	L 0	<i>MyBallot</i> # 446		Cl 09 SC Myles, Andrew Comment Type The "frames i	9.7 TR n sequen	P0 Comment Status X ice" is often incorrect in Table 3 2 37 claims there are 2 frames i			arly
	P0 Comment Status X ce" is often incorrect in Table 37 claims there are 2 frames			learly	SuggestedRemed Correct all ins Proposed Respor	tances in	Table 37 and 38 <i>Response Status</i> O			
Correct all instances in	Table 37 and 38									
Proposed Response	Response Status O									

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 Page 67 of 112 5/18/2005 11:29:05 AM C/ 09 SC 9.7 SORT ORDER: Clause, Subclause, page, line

IEEE P802.11REV-am Draft 1.0 Comments -

C/ 09 SC Kruys, Jan	9.9	P 0	LO	MyBallot # 299	C/ 09 SC 9.9.2.1 Engwer, Darwin	P 0	L 0	MyBallot # 481
Comment Type	Е	Comment Status X			Comment Type ER	Comment Status X		
The text is wo	ordy potential	lly confusing			Table 39, 40 and 41	, the index column headings do	not line up	with the corresponding column
SuggestedRemed	dy				SuggestedRemedy			
				ficantly from one regulatory	line up the columns			
and describe	es mechanism gulatory dom	n that allows stations to su ains. When this mechansi	ipport cross- im is active, t		Dropood Doopopoo	Response Status O		
NOTEùThis c equipment au	clause does r uthorization, c	or equipment certification i	btain type ac	cceptance, regulatory appro e regulatory domains in wh	h Engwer, Darwin	P 0	L 0	MyBallot # 480
the equipment	ni wili operate	e. The mechanisms descri	bed in this c	lause provide the information		Comment Status X		
the station to those domain	ns for which it		oval. It is incu	umbent upon the implement	3 1			
the station to those domain to provide pro Note that the station must I	ns for which it oof of complia method for c be properly c	t does not have type appro ance to the requirements of configuring individual station onfigured	oval. It is inco of individual ons is outside	umbent upon the implement regulatory agencies. The scope of this standard	e incorrect reference t , SuggestedRemedy		should be "	described in 14.6.8 or a hoppir
the station to those domain to provide pro Note that the station must I for operation	ns for which it oof of complia e method for c be properly c i in a particula	t does not have type appro ance to the requirements of configuring individual station onfigured	oval. It is incl of individual ons is outside to beginning	umbent upon the implement implement upon the implement upon the implementation of the im	e incorrect reference t , SuggestedRemedy	o another clause	should be "	described in 14.6.8 or a hoppir
the station to those domain to provide pro Note that the station must I for operation	ns for which it oof of complia e method for c be properly c in a particula e taken when	t does not have type appro ance to the requirements of configuring individual station onfigured ar regulatory domain prior	oval. It is incl of individual ons is outside to beginning	umbent upon the implement regulatory agencies. The scope of this standard	 incorrect reference t SuggestedRemedy reference to "descril 	o another clause bed in 35214.6.8 or a hopping",	should be "	described in 14.6.8 or a hoppir
the station to those domain to provide pro Note that the station must l for operation care must be Proposed Respon	ns for which it oof of complia a method for c be properly c in a particula a taken when onse	t does not have type appro ance to the requirements of configuring individual static onfigured ar regulatory domain prior operating in an IBSS conf <i>Response Status</i> O	oval. It is inclosed individual to beginning iguration.	umbent upon the implement regulatory agencies. e the scope of this standard normal operation. Particula	 incorrect reference t SuggestedRemedy reference to "descril 	o another clause bed in 35214.6.8 or a hopping",	should be " <i>L</i> 0	described in 14.6.8 or a hoppir <i>MyBallot</i> # 503
the station to those domain to provide pro Note that the station must I for operation care must be Proposed Respon	ns for which it oof of complia e method for c be properly c in a particula e taken when	t does not have type appro ance to the requirements o configuring individual statio onfigured ar regulatory domain prior operating in an IBSS conf	oval. It is incl of individual ons is outside to beginning	umbent upon the implement regulatory agencies. The scope of this standard	 incorrect reference t SuggestedRemedy reference to "descril Proposed Response Cl 10 SC 10. 	o another clause bed in 35214.6.8 or a hopping", <i>Response Status</i> O		
the station to those domain to provide pro Note that the station must l for operation care must be Proposed Respon C/ 09 SC Kruys, Jan Comment Type	ns for which it oof of complia e method for c be properly c in a particula e taken when onse E	t does not have type appro ance to the requirements of configuring individual static onfigured ar regulatory domain prior operating in an IBSS conf <i>Response Status</i> O	oval. It is inclosed individual to beginning iguration.	umbent upon the implement regulatory agencies. e the scope of this standard normal operation. Particula	 incorrect reference f SuggestedRemedy reference to "descril Proposed Response Cl 10 SC 10. Engwer, Darwin Comment Type TR After the combination individual changes, 	o another clause bed in 35214.6.8 or a hopping", <i>Response Status</i> O <i>P</i> 0	L 0 sequent am	<i>MyBallot</i> # 503 mendments and more focused
the station to those domain to provide pro Note that the station must l for operation care must be Proposed Respon C/ 09 SC Kruys, Jan Comment Type	ns for which it oof of complia e method for c be properly c in a particula e taken when onse 9.9 E I" is the wrong	t does not have type appro ance to the requirements of configuring individual static onfigured ar regulatory domain prior operating in an IBSS conf <i>Response Status</i> O <i>P</i> 0 <i>Comment Status</i> X	oval. It is inclosed individual to beginning iguration.	umbent upon the implement regulatory agencies. e the scope of this standard normal operation. Particula	 incorrect reference f SuggestedRemedy reference to "descril Proposed Response Cl 10 SC 10. Engwer, Darwin Comment Type TR After the combination individual changes, 	o another clause bed in 35214.6.8 or a hopping", <i>Response Status</i> O <i>P</i> 0 <i>Comment Status</i> X n of the base standard, the substhere remain unresolved inconsi	L 0 sequent am	<i>MyBallot</i> # 503 mendments and more focused
the station to those domain to provide pro Note that the station must I for operation care must be Proposed Respon Cl 09 SC Kruys, Jan Comment Type "Geo political	ns for which it oof of complia e method for c be properly c in a particula e taken when onse 9.9 E I" is the wrong edy	t does not have type appro ance to the requirements of configuring individual static onfigured in regulatory domain prior operating in an IBSS conf <i>Response Status</i> O <i>P</i> 0 <i>Comment Status</i> X g word in this context	oval. It is inclosed individual to beginning iguration.	umbent upon the implement regulatory agencies. e the scope of this standard normal operation. Particula	 incorrect reference to SuggestedRemedy reference to "descril Proposed Response Cl 10 SC 10. Engwer, Darwin Comment Type TR After the combination individual changes, other clauses. This 	o another clause bed in 35214.6.8 or a hopping", <i>Response Status</i> O <i>P</i> 0 <i>Comment Status</i> X n of the base standard, the subst there remain unresolved inconsi applies to this clause and all su	L 0 sequent am	<i>MyBallot</i> # 503 mendments and more focused

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 68 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written
 C/closed
 U/unsatisfied Z/withdrawn
 5/18/2005 11:29:05 AM
 C/closed
 10
 SC 10.

May 2005 IEEE P802.11REV-a	am Draft 1.0 Comments - doc: IEEE 802.11-05/0482r0
C/ 10 SC 10. P 0 L 0 MyBallot # 301 Kruys, Jan	C/ 10 SC 10.3 P0 L0 MyBallot # 633
Comment Type TR Comment Status D The opening sentence of 10.1 declares the subject matter to be conceptual whereas the last sentences require compliance - in this case with the management interfaces. It is a good idea keep a standard free of implementation descriptions/presciptions and one would not expect to see formal testing of these interfaces. SuggestedRemedy	Comment Type E Comment Status X The vendor specific element is missing from all of the primitives. SuggestedRemedy Add in the vendor specific element to associatation, reassociation, ect. Primitives. Proposed Response Response Status O
The whole of this Clause should be labelled "informative" and moved to an annex.	Filiposeu Response Response Status O
Proposed Response Response Status W PROPOSED ACCEPT. Replace normative usage of "shall" in the service primitives with descriptive verbs.	C/ 10 SC 10.3.10.2.2 P0 L0 MyBallot # 482
Cl 10 SC 10.1 P0 L0 MyBallot # 66 Stephens, Adrian	Comment Type TR Comment Status X Need to add another result code to fully address all the error conditions cited in clause 10.3.10.1.3.
Comment Type TR Comment Status X "In order to provide correct MAC operation, an SME shall be present within each STA. The SME is a layerindependent entity that may be viewed as residing in a separate management plane or as residing ôoff to t side.ö The exact functions of the SME are not specified in this standard"	SuggestedRemedy Add the result code RESET_REQUIRED_BEFORE_START. Proposed Response Response Status O
Normative requirements relate to behaviour, not the presence of an entity with explicitly unspecified behaviour. Moreover if correct operation of the MAC depends on this unspecified behaviour, we have a	C/ 10 SC 10.3.16.2.2 P0 L0 MyBallot # 352 Black, Simon
problem, Houston.	Comment Type TR Comment Status X
SuggestedRemedy Replace first quoted sentence with: "An SME is present in each STA".	The description column of the Resultcode parameter doesn't match the remainder of the text i this section. It reports the outcome of the request to send the frame and not the actual TPC adaptation procedure as 10.3.16.2.4 suggests.
Alternatively, one of my other comments points out that we do actually (and wrongly) define quite a lot of normative behaviour for the SME (for example in the state machines that show quite a lot of normative behaviour for the SME (for example in the state machines in the space).	SuggestedRemedy Correct Description column in table to match remainder of section.
authentication being performed before association, and some of the procedures in the security section). The harder (but better) solution is to identify that normative behaviour and move it to sub-slowed labeled "security". They way see require the behaviour and move it to	Proposed Response Response Status O

Proposed Response Response Status 0

reference it from the PICS.

subclause labelled "required SME behaviour". Then you can require it to be present, and

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 Page 69 of 112 5/18/2005 11:29:05 AM C/ 10 SORT ORDER: Clause, Subclause, page, line

Bob O'Hara, Cisco Systems

SC 10.3.16.2.2

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 10 SC 10.3.2.1.2 P0 Sanwalka, Anil	L 0 MyBallot # 333	Cl 10 SC 10.3.4.4.2 P0 L0 MyBallot # 602 Reuss, Edward
Comment Type TR Comment Status X Wildcard SSID is not defined anywhere.		Comment Type E Comment Status X Spelling error "ResultCole"
SuggestedRemedy Define it.		SuggestedRemedy Change "ResultCole" to "ResultCode".
Proposed Response Response Status O		Proposed Response Response Status O
C/ 10 SC 10.3.2.2.2 P0 Sanwalka, Anil	L 0 MyBallot # <u>334</u>	Cl 10 SC 10.3.4.4.2 P0 L0 MyBallot # 410 Edwards, Bruce Edw
Comment Type T Comment Status X Since Beacon and Probe Response frames are required don't see the need for the extra sentence indicating what SuggestedRemedy SuggestedRemedy Delete the sentence "If no PHY Parameter Set is à" Proposed Response Response Status O		Comment Type ER Comment Status X The table has an entry named "ResultCole" SuggestedRemedy Replace with "ResultCode" Response Status O
Cl 10 SC 10.3.4.3 P0 Mike, Moreton Comment Type TR Comment Status X Note that the changes make this section inconsistent with 10.3.4.3. While I don't mind either way about this change (1) SC 10.3.4.3 P0 SC 10.3.4.3 P		Cl 10 SC 10.3.4.6.2 P0 L0 MyBallot # 411 Edwards, Bruce Comment Type ER Comment Status X PeerStaAddress should say "from which the authentication request was received." SuggestedRemedy Multiple in the status X
effort of changing the other sections it impacts. SuggestedRemedy Remove changes to 10.3.4.3 and 10.3.4.4 Proposed Response Response Status O		Make the change. Proposed Response Response Status O

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 70 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed
 U/unsatisfied Z/withdrawn
 5/18/2005 11:29:05 AM
 C/ 10
 SC 10.3.4.6.2

 SORT ORDER:
 Clause, Subclause, page, line
 SC 10.3.4.6.2
 SC 10.3.4.6.2
 SC 10.3.4.6.2

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 10 SC 10.3.6.1.2 P0 L0 MyBallot # 335	Cl 10 SC 10.3.6.3.1, 10.3.6.4.1, 10 P0 L0 MyBallot # 110 Bagby, David
Comment Type T Comment Status X The change here indicates that the capability field is a request, but in some cases it is really "capability". In clause 10.3.6.3.2 this field is called a capability definition when it is passed up the AP. I am not sure of the impetus for these changes. SuggestedRemedy Please clarify Proposed Response Response Status O	Comment Type TR Comment Status X (search for the phrase) û delete the trailing phrase ôwhich is acting as an APö û the condition
Cl 10 SC 10.3.6.2.2 P0 L0 MyBallot # 351 Black, Simon Comment Type TR Comment Status X	SuggestedRemedy re-write impacted sections to be more precise to remove the objections noted. Proposed Response Response Status O
The added Reasons to the ResultCode parameter in MLME-ASSOCIATE.cnf primitives are incomplete and in some cases have no obvious mappiing to the returned status code. This is logical interface so why not do the simple thing and simply return the status code from the frame if you must expand. SuggestedRemedy Additions useful? Proposed Response Response Status	Mike, Moreton Comment Type TR Comment Status X Is only generated indirectly "as a result of an MLME-ASSOCIATE.request". SuggestedRemedy Change to "on completion of the association procedure" or something like thatà
Cl 10 SC 10.3.6.3 P0 L0 MyBallot # 216 Mike, Moreton Comment Type E Comment Status X It's very difficult to find the beginning of each service primitive description due to the similar formatting. SuggestedRemedy Any chance we could have each one starting on a new page? Proposed Response Response Status O	Proposed Response Response Status O Cl 10 SC 10.3.6.3.2 P0 L0 MyBallot # 603 Reuss, Edward Comment Type E Comment Status X The term "desired SSID" is redundant. SuggestedRemedy In SSID entry description, delete the word "desired".

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 71 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:05 AM
 C/ 10
 SC 10.3.6.3.2

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 10 SC 10.3.6.4.2 P0 Mike, Moreton	L 0 MyBal	lot # 219	C/ 10 SC 10.3.7.1.2 P0 L0 MyBallot # 336
Comment Type TR Comment Status X I don't think "REFUSED_NOT_AUTHENTICATED" MAC should do this itself. Also 10.3.7.4.2 SuggestedRemedy Remove "REFUSED_NOT_AUTHENTICATED" from the status of the			Comment Type T Comment Status X The change here indicates that the capability field is a request, but in some cases it is really a "capability". In clause 10.3.7.3.2 this field is called a capability definition when it is passed up the AP. I am not sure of the impetus for these changes. SuggestedRemedy Please clarify Proposed Response Response Status O
Cl 10 SC 10.3.6.4.2 P0 Mike, Moreton Comment Type TR Comment Status X I don't think "REFUSED_BASIC_RATES_MISMAT MAC should do this itself. Also 10.3.7.4.2		lot # 220	Cl 10 SC 10.3.7.3.2 P0 L0 MyBallot # 604 Reuss, Edward Comment Type E Comment Status X The term "desired SSID" is redundant.
SuggestedRemedy Remove "REFUSED_BASIC_RATES_MISMATCH Proposed Response Response Status O	" from 10.3.7.4.2 and 1	10.3.6.4.2	SuggestedRemedy In SSID entry description, delete the word "desired". Proposed Response Response Status O
Cl 10 SC 10.3.6.4.4 P0 L0 MyBallot # 221 Mike, Moreton Comment Type ER Comment Status X "transmission of a response" - what sort of response? SuggestedRemedy "transmission of an AssociationResponse" Proposed Response Response Response Status O		lot # 221	Cl 11 SC 11. P0 L0 MyBallot # 504 Engwer, Darwin Comment Type TR Comment Status X After the combination of the base standard, the subsequent ammendments and more focused individual changes, there remain unresolved inconsistencies between the text in this clause a other clauses. This applies to this clause and all subclauses thereof. SuggestedRemedy Baselue the inconsistencies
			Resolve the inconsistencies.Proposed ResponseResponse StatusO

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 72 of 112

 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/ 11
 SC 11.

Comment Type TR Comment Status X Section 11 contains many references to the internal interfaces of the MLME and SME in the sense of "shall do X". it should be clear that these "shall" do not define mandatory statements that require verification testing etc. Also, the sections on TPC And DFS are not correct and should better be moved to clause 9.	Comment Type E Comment Status X "contining" should be "continuing" SuggestedRemedy Correct
SuggestedRemedy	Proposed Response Response Status O
Ideally, the MLME related material should be removed or referenced to an Annex that deals w the MLME. It may be more efficient to add a note to the beginning of this Clause that states "where referecence is made to the MLME interfaces and interface primitives, it should be understood that these refer to the informative models presented in Annexes "was clause 10". None of the statements "shall" are to be considered compliance criteria". Further, the	<i>Cl</i> 11 <i>SC</i> 11.1.2 <i>P</i> 0 <i>L</i> 0 <i>MyBallot</i> # 439 Raissinia, Ali
sections on TPC and DFS should be moved to Clause 9 - and the reference to "ERC/DEC/(99)23" should be replaced by "Regulations that apply to the 5GHz band in most regulatory domains". The reference "(see ETSI EN 301 893)" should be replaced by "(see ETSI EN 301 893, FCC R&O 03-287 and other regulatory requirements documents.	Comment Type TR Comment Status X The added text "data symbol contining the first bit of the timestamp" implies that MAC is away of PHY data symbols. MAC only knows bits.
Proposed Response Response Status O	SuggestedRemedy Revert to the original text.
Cl 11 SC 11.1.2 P0 L0 MyBallot # 448	Proposed Response Response Status O
Myles, Andrew	Cl 11 SC 11.1.2 P0 L0 MyBallot # 130
Comment Type TR Comment Status X The text claims that the TSF in a BSS is always maintained to within 4 symbols.	Myles, Andrew Comment Type TR Comment Status X
It is still unclear how this is calculated	The text claims that the TSF in a BSS is always maintained to within 4 symbols.
SuggestedRemedy Explain	It is still unclear how this is calculated
Proposed Response Response Status O	SuggestedRemedy Explain
Cl 11 SC 11.1.2 P 0 L 0 MyBallot # 449 Myles, Andrew 449	Proposed Response Response Status O
Comment Type E Comment Status X "contining" should be "continuing"	

"cont SuggestedRemedy

Correct

May 2005

SC 11.

P0

LO

MyBallot # 303

C/ 11

Kruys, Jan

Proposed Response Response Status 0

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general Page 73 of 112 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn 5/18/2005 11:29:05 AM C/ 11 SC 11.1.2 SORT ORDER: Clause, Subclause, page, line

Bob O'Hara, Cisco Systems

IEEE P802.11REV-am Draft 1.0 Comments -

ΡO

LO

SC 11.1.2

C/ 11

Myles, Andrew

doc: IEEE 802.11-05/0482r0

MyBallot # 131

May 2005			IEEE P802.11REV-a	am Draft 1.	0 Comments -		doc	: IEEE 802.11-05/0482r0
C/ 11 SC 11.1.2 Jalfon, Marc	P 0	L 0	MyBallot # 527	C/ 11 Stephens	SC 11.1.3 s, Adrian	P 0	L 0	MyBallot # 67
is 16us, which is a lot o Where does the additio SuggestedRemedy	Comment Status X chronization is to within an acc different to the previous value nal 12us of uncertainty spring e new relaxed value, or resto Response Status O	of 4us.	symbols. For OFDM PHYs th old value.	desir not r This Suggeste Move	STAÆs scanning ed type, or does esult in finding an	Comment Status X does not result in finding a BSS y BSS, the STA may start an IBS performed in the MLME entity. Response Status 0		desired SSID and of the
is 16us, which is a lot o Where does the additio SuggestedRemedy	P0 Comment Status X chronization is to within an acc different to the previous value nal 12us of uncertainty spring e new relaxed value, or resto	of 4us.	<i>MyBallot</i> # 33 symbols. For OFDM PHYs th	the r Suggeste Clari	<i>t Type</i> TR t understand the c equested scan typ ed <i>Remedy</i> fy.	P 0 Comment Status X change that's been made here - be, or ScanType parameter in M		
Proposed Response	Response Status O			Proposed	d Response	Response Status O		
the broadcast SSID par	rameter set to the wildcard SS any Beacon frames, or active	SID, the ST.	MyBallot # 222 f an MLME-SCAN.request wit A Probe frames containing the	dura MinC S <i>uggeste</i> Clari	<i>t Type</i> TR ssive scan 'the S ⁻ tion defined by the channelTime in MI edRemedy	P0 Comment Status X TA shall listen to each channel s e ChannelTime parameter.' I sav ME-SCAN.req but no Channel Response Status 0	v a MaxC	
Proposed Response	Response Status O							

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 Page 74 of 112 5/18/2005 11:29:05 AM C/ 11 SORT ORDER: Clause, Subclause, page, line SC 11.1.3.1

May 2005			IEEE P802.11REV-a	m Draft 1.0 Co	omments -		doc:	IEEE 802.11-05/0482r0
C/ 11 SC 11.1.3.1 Mike, Moreton	P 0	L 0	MyBallot # 223	C/ 11 Slack, Simon	SC 11.1.3.2.2	P 0	LO	MyBallot # 356
SuggestedRemedy	Comment Status X " attribute - just a "ScanType is passive," to "If the ScanTy Response Status O			compared defined as MinChanr	ive scan proced to MinChanne s the minimum, nelTime minimu timeout the oth	Comment Status X dure the ProbeTimer is started ITime and MaxChanneTime. or maximum time to spend o im is ProbeDelay). There is an er is an on channel time.	In clause n the char	nnel when scanning (e.g.
C/ 11 SC 11.1.3.2 Engwer, Darwin Comment Type TR	P 0 Comment Status X	LO	MyBallot # 483		that should be	ative text and clause 10 desc brought into line with clause Response Status O		gical interface it is probably
incorrect primitive refere SuggestedRemedy Change "PHY-CCARES Proposed Response	nce. ET.request" to "PHY-CCARI <i>Response Status</i> 0	ESET.confirm	n".	Cl 11 McCann, Step Comment Typ typo in po	e E	P 0 Comment Status X	LO	MyBallot # 584
C/ 11 SC 11.1.3.2.2 Black, Simon Comment Type ER	P 0 Comment Status X	LO	MyBallot # 355	SuggestedRei change "r Proposed Res	eqeust" to "req	uest" Response Status O		
There is a typo in bullet SuggestedRemedy Correct				C/ 11 Step McCann, Step Comment Typ		P 0 Comment Status X	LO	MyBallot # 579
Proposed Response	Response Status O			SuggestedRe	<i>medy</i> o "an STA"	and "a" with abbrevitations, e. <i>Response Status</i> 0	g. "a STA	и

May 2005			IEEE P802.11REV-a	m Draft 1.0 Comm	nents -		doc	: IEEE 802.11-05/0482r
C/ 11 SC 11.1.3. Stephens, Adrian	4 P0	LO	MyBallot # 68	C/ 11 SC 1 Black, Simon	1.2.1	P0	L 0	MyBallot # 358
should be states to re synchronized (can experience)	Comment Status X s that the state machine descril effect that it is not synchronized ichange class 1 frames), auther ange class 3 frames).	(i.e. cannot	exchange class 1 frames), is	A deferred PS an ACK and the	en later bught to	Comment Status X conse is allowed in the frame e sending the MSDU) and descr be mentioned in point (f). Also data frame	ibed in 11.	2.1 (para 4), but not mention
SuggestedRemedy				SuggestedRemedy				
	te diagram to show the process ocedures of this section.	s of transition	ning from idle to synchronized	Consider clarifi	cation ir	11.2.1.4 and 11.2.1.6.		
Proposed Response	Response Status O			Proposed Respons	е	Response Status O		
C/ 11 SC 11.1.3.	4 P0	LO	MyBallot # 580	C/ 11 SC 1 Black, Simon	1.2.1	P 0	L 0	MyBallot # 357
McCann, Stephen Comment Type E Badly phrased sente set"	Comment Status X nce "will adopt the same param	eters except	also excluding CF paramete	Para 3 says: 'S by the STAÆs	ListenIn	Comment Status X erating in PS modes shall perio iterval and ReceiveDTIMs para primitive.' ListenInterval is not i	meters of	the MLME-
SuggestedRemedy				SuggestedRemedy				
Not sure. Proposed Response	Response Status O			periodically liste	en for be	ren and delete text between //: eacons, as determined by the s eter/s/ (in)/of/ the MLME-POWE	STAÆs Lis	stenInterval and (the)
C/ 11 SC 11.1.3. Mike, Moreton	4 P 0	LO	MyBallot # 224	Proposed Respons	е	Response Status 0		
Comment Type TR	Comment Status X							
just add to the confus request, but the desc joined/not joined stat	is still a mess, and it would prob sion. For example, the service p ription says you must wait for a e? When does the state chang join based on parameters store	brimitive imp beacon. Ho e to join duri	lies you can use a probe ow does data transfer apply to ng this process? Why are yo					

SuggestedRemedy

Either write a more complete, more structured definition, or leave it as it was.

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

Proposed Response Response Status O

SORT ORDER: Clause, Subclause, page, line

Submission

Page 76 of 112 5/18/2005 11:29:06 AM C/ 11 SC 11.2.1

IEEE P802.11REV-am Draft 1.0 Comments -

C/ 11 Oakes, Iva	SC 1 1 an	1.2.1.1	P 0	L 0	MyBallot # 88	Cl 11 SC 11.2.1.4 P0 L0 My Jokela, Jari	Ballot # 392
Comment	Туре	TR nderlined	Comment Status X ("data" and "The Power Ma	inagment b	it shall not be set in any	Comment Type TR Comment Status X Step f. Deferred and immediate responses shall be clarified	
manag ambig manag inform transn state -	gement fra juous. Fir gement, c n the AP o nitted fran - why not?	ame") cha rstly the P control, in of this fact nes". Sec ? Of cour	singe the legacy behavour w S bit should be set uniforml fact every frame sent by a S using the Power Managem condly management frames se this did not happen in the and assoc, but now there is	hich in my o y over all fra STA. This is ent bits with could be us past as the	opinion was not broken or ames - this includes s also indicated by 11.2.1 " nin the Frame Control field sed to indicate PS change ere were no management	SuggestedRemedy Clarify that in case of deferred mode AP shall respond to PS POLL with MPDU later on. In case of immediate mode actual MPDU is in response Proposed Response Response Status O	
Suggested	dRemedy					C/ 11 SC 11.2.1.6 P0 L0 My	Ballot # 359
			1.2.1.1, removing the words	"data" and	"The Power Managment b	Black, Simon	
			anagement frame."			Comment Type TR Comment Status X	
Proposed	Response	e	Response Status O			Why has point (b) been changed here. The randomization is not requin sending a PS-Poll.	ed if only one STA is
C/ 11 Sanwalka,	SC 1 1 , Anil	1.2.1.1	P 0	LO	MyBallot # 337	SuggestedRemedy Why the change?	
Comment	Туре	TR	Comment Status X			Proposed Response Response Status O	
			to only allow power manag				
Poll fr	ame and	Null frame	t acceptable. There are a new to transfer this information ny justification for this change.	n. Forgettin		C/ 11 SC 11.2.1.6 P0 L0 My Mike, Moreton	Ballot # 227
Suggested				-		Comment Type TR Comment Status X bullet (b) The delay is given as a numeric value. What are the units?	
Proposed	Response	e	Response Status O			SuggestedRemedy Can't we just say that the basic access mechanisms are usedà	
<i>Cl</i> 11 Raissinia,		1.2.1.1	P 0	L 0	MyBallot # 440	Proposed Response Response Status O	
Comment	Туре	TR	Comment Status X				
			on for added text regarding be set in any managment fr		r PM bit "The Power		
Suggested	dRemedy						
Please	e clarify th	ne reason	s or remove it.				

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 77 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:06 AM
 C/ 11
 SC 11.2.1.6

IEEE P802.11REV-am Draft 1.0 Comments -

C/ 11 SC 11.2.1 Mike, Moreton	.6 P 0	L 0	MyBallot # 226		C/ 11 Si Oakes, Ivan	C 11.2.2.1	P 0	L 0	MyBallot # 89
different to saying the exclusive limit. I do	Comment Status X at something happens after a ti lat it happens after the interval ubt this change was deliberate! replacing.	- it's the diffe	erence between an inclusive	/al e ar	STA needs	ned test in 1 to remain av ate would be	Comment Status X 1.2.2.1 does not add any us wake nor is it accurate to sa to indciate that when an A ⁻	y on STA's	PS-state should imply anoth
better than what it's replacing. SuggestedRemedy Revert to the old bullet (a). Proposed Response Response Status O					infrastructu MSDUs tha period whe	ragraph 1 by re case in th it are to be tr n all STAs a	the modified version: "The at the STAs are synchronize ansmitted to a power-conse re awake. The announceme	ed, and mult rving STA a nt is done v	icast MSDUs and those are first announced during a ia an ad hoc ATIM sent in a
C/ 11 SC 11.2.1 /like, Moreton Comment Type ER	6 P0 Comment Status X	L 0	MyBallot # 225		needs to re the STA ma stations in a	main in the a ay use PS M an IBSS, a s	n the PS mode shall listen for awake state. The presence of ode. To maintain correct inf tation needs to remain awak Doze state except as indicat	of the ATIM ormation or e during the	window in the IBSS indicate the power save state of ot ATIM window. At other time
It's conventional wh round, not "delta plu	en giving a time of the form "ab s absolute time".	solute time	blus delta" to give it that way	/	Proposed Resp	onse	Response Status O		
SuggestedRemedy Change "ListenInter	val plus the last TBTT" to "the	last TBTT pl	us the ListenInterval"						
Proposed Response	Response Status 0								

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 78 of 112

 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/ 11
 SC 11.2.2.1

Cl 11 SC 11.2.2.1 P0 L0 MyBallot # 69 Stephens, Adrian	C/ 11 SC 11.3 P 0 L 0 MyBallot # 214 Mike, Moreton
Comment Type TR Comment Status X "To maintain correct information on the power save state of other stations in an IBSS, a station needs to remain awake. If a station changes to the PS mode, it shall assume that all other stations are in the PS mode als	Comment Type TR Comment Status X The clause should be called "Authentication and Deauthentication". SuggestedRemedy See comment
This is both unnecessary and inadequate. An IBSS STA has to be robust with respect to having perfect knowledge of the power-saving state of other STA, because power-saving state of other STA, because power-saving state of the power saving state of the	Proposed Response Response Status O
changes are communicated using unreliable broadcast transmissions. The added text mandates a delay of, on average, half a beacon interval on transmissions from a power-saver a non-power-saver, because the power-saver is required to assume the non-power-saver mig become one while it is asleep.	C/ 11 SC 11.4.2 P 0 L 0 MyBallot # 217 Mike, Moreton Moreton <t< td=""></t<>
The solution that an IBSS STA has to implement to cope with its imprecise knowledge is if there is a transmission failure to a STA that it thinks is a non-power-saver, it should retry that frame on the assumption it is now a power saver.	Comment Type TR Comment Status X You can't just delete the name of the primitive used for communication between the SME and the MAC and hope that no-one notices that this section is now inconsistent with the primitive description! Same applies to 11.4.4
This heuristic is adequate, and the addition that I have cited (with its bad effect on transport delay) is unnecessary.	SuggestedRemedy Change 11.4.4 and 11.4.2 to be consistent with the change to the (re)association primitives.
SuggestedRemedy Remove the quoted text, and possible add an informative note relating to the retry heuristic I mention.	Proposed Response Response Status O
Proposed Response Response Status O	C/ 11 SC 11.5 P0 L0 MyBallot # 90 Oakes, Ivan
Cl 11 SC 11.2.2.1 P 0 L 0 MyBallot # 228 Mike, Moreton	Comment Type TR Comment Status X The first two paragraphs add nothing and may be incomplete given recent FCC rulings. SuggestedRemedy
Comment Type ER Comment Status X A preposition is a word you shouldn't end a sentence with.	Remove first and second paragraphs of 11.5 starting "ERC/DEC/(99)23à", edit paragraph 2 to say "This subclause describes TPC procedures that may be used to satisfy regulatory requirements in Europe and similar elsewhere".
SuggestedRemedy Change "If a station changes to the PS mode, it shall assume that all other stations are in the PS mode also." to "If a station changes to the PS mode, it shall assume that all other stations are also in the PS mode."	Proposed Response Response Status O
Proposed Response Response Status O	

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 79 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:06 AM
 C/ 11
 SC 11.5

May 2005 IEEE P802.11REV-a	m Draft 1.0 Comments - doc: IEEE 802.11-05/0482r0
Cl 11 SC 11.5 P 0 L 0 MyBallot # 70 Stephens, Adrian	Cl 13 SC 13. P 0 L 0 MyBallot # 506 Engwer, Darwin
Comment Type TR Comment Status X "dot11SpectrumManagementRequired shall be set to TRUE when regulatory authorities requirered." How is this normative requirement testable? All normative requirements should be testable. SuggestedRemedy SuggestedRemedy	Comment Type TR Comment Status X After the combination of the base standard, the subsequent ammendments and more focusec individual changes, there remain unresolved inconsistencies between the text in this clause a other clauses. This applies to this clause and all subclauses thereof. SuggestedRemedy Resolve the inconsistencies.
Replace "shall be" with "is". Consider adding: "NOTE - the mechanisms to achieve this are beyond the scope of this standard."	Proposed Response Response Status O
Proposed Response Response Status O	Cl 14 SC 14. P 0 L 0 MyBallot # 507 Engwer, Darwin
Cl 11 SC 11.6 P0 L0 MyBallot # 91 Oakes, Ivan Comment Type TR Comment Status X The first two paragraphs add nothing and may be incomplete given recent FCC rulings. SuggestedRemedy	Comment Type TR Comment Status X After the combination of the base standard, the subsequent ammendments and more focusec individual changes, there remain unresolved inconsistencies between the text in this clause a other clauses. This applies to this clause and all subclauses thereof. SuggestedRemedy
Remove first and second paragraphs of 11.6 starting "ERC/DEC/(99)23à", edit paragraph 2 tc say "This subclause describes TPC procedures that may be used to satisfy regulatory requirements in Europe and similar elsewhere".	Resolve the inconsistencies.Proposed ResponseResponse StatusO
Proposed Response Response Status O	Cl 14 SC 14. P0 L0 MyBallot # 183
Cl 12 SC 12. P0 L0 MyBallot # 505 Engwer, Darwin	Mike, Moreton Comment Type T Comment Status X
Comment Type TR Comment Status X After the combination of the base standard, the subsequent ammendments and more focusec individual changes, there remain unresolved inconsistencies between the text in this clause a other clauses. This applies to this clause and all subclauses thereof.	With the ever growing length of the standard it seems reasonable to remove some of the stuff that is no longer used where this will not cause compatibility problems with existing equipmen Surely it's acceptable to say that equipment that wishes to interoperate with other equipment using these obsolete procedures should follow the 1999 version of the standard?
SuggestedRemedy	SuggestedRemedy Replace clauses 14 with a direction to the 1999 version of the standard.
Resolve the inconsistencies. Proposed Response Response Status O	Proposed Response Response Status O

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 80 of 112

 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/ 14
 SC 14.

May 2005			IEEE P802.11REV-a	am Draft 1.0 Comments	3 -	doc	: IEEE 802.11-05/0482r0
C/ 14 SC 14.9 Miki, Morgan	P 0	L 0	MyBallot # 255	C/ 14 SC 14.9 Gohda, Wataru	P 0	L 0	MyBallot # 24
Comment Type TR No reason to consider	Comment Status X aPHY-RX-STARTDelay. See co	omments o	on section 9.2.5.7 and 9.2.8.	<i>Comment Type</i> TR No reason to keep a	Comment Status X PHY-RX-STARTDelay. See my	comments	on section 9.2.5.7 and 9.2.8.
SuggestedRemedy Remove aPHY-RX-ST	ART-Delay from table 79.			SuggestedRemedy Remove aPHY-RX-S	START-Delay from table 79.		
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 14 SC 14.9 Jalfon, Marc	P 0	LO	MyBallot # 528	C/ 15 SC 15. Engwer, Darwin	P 0	L 0	MyBallot # 508
	Comment Status X IY-RX-START-Delay to be 0us. after the PLCP header has beer			individual changes, t	Comment Status X n of the base standard, the subs here remain unresolved inconsi applies to this clause and all sub	stencies be	tween the text in this clause a
SuggestedRemedy Replace value of 0 with	h value of 128			SuggestedRemedy Resolve the inconsis	tencies.		
Proposed Response	Response Status O			Proposed Response	Response Status O		
Cl 14 SC 14.9 Stephens, Adrian	P 0	L 0	MyBallot # 36	C/ 15 SC 15.3.3 Gohda, Wataru	P 0	L 0	MyBallot # 25
	Comment Status X IY-RX-START-Delay to be 0us. after the PLCP header has beer			SuggestedRemedy	Comment Status X PHY-RX-STARTDelay. See my START-Delay from table 81.	comments	on section 9.2.5.7 and 9.2.8.
Replace value of 0 with	h value of 128			Proposed Response	Response Status O		
Proposed Response	Response Status O						

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 81 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:06 AM
 C/ 15
 SC 15.3.3

May 2005			IEEE P802.11REV-ar	m Draft 1.0 Comments	-		doc:	IEEE 802.11-05/0482r0
C/ 15 SC 15.3.3 Stephens, Adrian	P 0	LO	MyBallot # 37	C/ 15 SC 15.4.7.4 Hillman, Garth	; pg 393	P 0	L 0	MyBallot # 343
RXSTART.ind occurs a shows the indication du SuggestedRemedy	Comment Status X Y-RX-START-Delay to be Ous. Ifter the PLCP header has been uring the middle of the received a value of 144+48 = 192us. Response Status O	n received		Comment Type TR We need to identify th separately SuggestedRemedy Add a separate transp Proposed Response		an the 2.4 band		and describe its transmit mas
RXSTART.ind occurs a shows the indication du SuggestedRemedy	P0 Comment Status X Y-RX-START-Delay to be Ous. Ifter the PLCP header has bee uring the middle of the received a value of 144+48 = 192us. Response Status O	n received		that is no longer used	where this will i to say that equi procedures sho	andard it seer not cause com pment that wis uld follow the o the 1999 ver	npatibility pro shes to intero 1999 version	
SuggestedRemedy	P0 Comment Status X aPHY-RX-STARTDelay. See c ART-Delay from table 81. Response Status 0	L 0 omments c	<i>MyBallot</i> # 2 <u>56</u>		ere remain unre pplies to this cla	ndard, the sub solved incons use and all su	istencies be	<i>MyBallot</i> # 509 mendments and more focusec tween the text in this clause a ereof.

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 82 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written
 C/closed
 U/unsatisfied Z/withdrawn
 5/18/2005 11:29:06 AM
 C/closed
 <t

May 2005			IEEE P802.11REV	am Draft 1.0 Comments	s -	doc	IEEE 802.11-05/0482r0	
C/ 16 SC 16.4 Gohda, Wataru	P 0	LO	MyBallot # 26	C/ 16 SC 16.4 Jalfon, Marc	P 0	LO	MyBallot # 530	
Comment Type TR No reason to keep aP	Comment Status X HY-RX-STARTDelay. See my o	comments o	on section 9.2.5.7 and 9.2.8.	Comment Type TR Table 98 declares al	Comment Status X PHY-RX-START-Delay to be 0us			
SuggestedRemedy Remove aPHY-RX-ST	ART-Delay from table 98.			SuggestedRemedy It needs to be aPreambleLength+aPLCPHeaderLength. In the IR PHY, these depend also c				
Proposed Response Response Status O			the data rate. So yo	ou can take your pick - but it defini	itely isn't z	ero.		
C/ 16 SC 16.4	PO	10		Alternatively mark cl parameter.	ause 16 as deprecated with a no	te that it is	not maintained, and remove t	
C/ 16 SC 16.4 Stephens, Adrian	PU	L 0	MyBallot # 38	Proposed Response	Response Status O			
Comment Type TR	Comment Status X			C/ 16 SC 16.4	P 0	LO	MyBallot # 35	
Table 98 declares aPH	TY-RX-START-Delay to be ous			Stephens, Adrian				
SuggestedRemedy It needs to be aPream	bleLength+aPLCPHeaderLeng can take your pick - but it defin	th. In the I		Comment Type E	Comment Status X 98 being maintained. It is so us	eful, after a	all.	
SuggestedRemedy It needs to be aPream the data rate. So you	bleLength+aPLCPHeaderLeng	gth. In the I itely isn't ze	ero.	Comment Type E It is nice to see table SuggestedRemedy		·		
SuggestedRemedy It needs to be aPream the data rate. So you Alternatively mark clau	bleLength+aPLCPHeaderLeng can take your pick - but it defin	gth. In the I itely isn't ze	ero.	Comment Type E It is nice to see table SuggestedRemedy	98 being maintained. It is so us	·		
SuggestedRemedy It needs to be aPream the data rate. So you Alternatively mark clau parameter.	bleLength+aPLCPHeaderLeng can take your pick - but it defin use 16 as deprecated with a no	gth. In the I itely isn't ze	ero.	Comment Type E It is nice to see table SuggestedRemedy Or perhaps remove	e 98 being maintained. It is so us	·		
SuggestedRemedy It needs to be aPream the data rate. So you Alternatively mark clau parameter. Proposed Response Cl 16 SC 16.4	ableLength+aPLCPHeaderLeng can take your pick - but it defin use 16 as deprecated with a no <i>Response Status</i> O	oth. In the I itely isn't ze	ero. not maintained, and remove t	Comment Type E It is nice to see table SuggestedRemedy Or perhaps remove Proposed Response Cl 17 SC 17.	e 98 being maintained. It is so us the IR PHY, or mark it deprecated <i>Response Status</i> O	d and unm	aintained.	
SuggestedRemedy It needs to be aPream the data rate. So you Alternatively mark clau parameter. Proposed Response CI 16 SC 16.4 Miki, Morgan Comment Type TR	bleLength+aPLCPHeaderLeng can take your pick - but it defin use 16 as deprecated with a no <i>Response Status</i> 0 <i>P</i> 0	oth. In the I itely isn't ze te that it is	ero. not maintained, and remove t <i>MyBallot</i> # 2 <u>57</u>	Comment Type E It is nice to see table SuggestedRemedy Or perhaps remove Proposed Response Cl 17 SC 17. Engwer, Darwin Comment Type TR After the combinatio	e 98 being maintained. It is so us the IR PHY, or mark it deprecated <i>Response Status</i> O <i>P</i> 0 <i>Comment Status</i> X n of the base standard, the subse	d and unm	aintained. <i>MyBallot</i> # <u>510</u>	
SuggestedRemedy It needs to be aPream the data rate. So you Alternatively mark clau parameter. Proposed Response Cl 16 SC 16.4 Miki, Morgan Comment Type TR No reason to consider SuggestedRemedy	ableLength+aPLCPHeaderLeng can take your pick - but it defin use 16 as deprecated with a no <i>Response Status</i> 0 <i>P</i> 0 <i>Comment Status</i> X aPHY-RX-STARTDelay. See 0	oth. In the I itely isn't ze te that it is	ero. not maintained, and remove t <i>MyBallot</i> # 2 <u>57</u>	Comment Type E It is nice to see table SuggestedRemedy Or perhaps remove Proposed Response Cl 17 SC 17. Engwer, Darwin Comment Type TR After the combinatio individual changes, t	e 98 being maintained. It is so us the IR PHY, or mark it deprecated <i>Response Status</i> O <i>P</i> 0 <i>Comment Status</i> X	d and unm <i>L</i> 0 equent ami stencies be	aintained. <i>MyBallot</i> # 510 mendments and more focusec tween the text in this clause a	
SuggestedRemedy It needs to be aPream the data rate. So you Alternatively mark clau parameter. Proposed Response Cl 16 SC 16.4 Miki, Morgan Comment Type TR No reason to consider SuggestedRemedy	ableLength+aPLCPHeaderLeng can take your pick - but it defin use 16 as deprecated with a no <i>Response Status</i> O <i>P</i> 0 <i>Comment Status</i> X aPHY-RX-STARTDelay. See of FART-Delay from table 98.	oth. In the I itely isn't ze te that it is	ero. not maintained, and remove t <i>MyBallot</i> # 2 <u>57</u>	Comment Type E It is nice to see table SuggestedRemedy Or perhaps remove Proposed Response Cl 17 SC 17. Engwer, Darwin Comment Type TR After the combinatio individual changes, t	e 98 being maintained. It is so us the IR PHY, or mark it deprecated <i>Response Status</i> O <i>P</i> 0 <i>Comment Status</i> X n of the base standard, the subset there remain unresolved inconsis	d and unm <i>L</i> 0 equent ami stencies be	aintained. <i>MyBallot</i> # 510 mendments and more focusec tween the text in this clause a	
SuggestedRemedy It needs to be aPream the data rate. So you Alternatively mark clau parameter. Proposed Response Cl 16 SC 16.4 Miki, Morgan Comment Type TR No reason to consider SuggestedRemedy	ableLength+aPLCPHeaderLeng can take your pick - but it defin use 16 as deprecated with a no <i>Response Status</i> 0 <i>P</i> 0 <i>Comment Status</i> X aPHY-RX-STARTDelay. See 0	oth. In the I itely isn't ze te that it is	ero. not maintained, and remove t <i>MyBallot</i> # 2 <u>57</u>	Comment Type E It is nice to see table SuggestedRemedy Or perhaps remove Proposed Response Cl 17 SC 17. Engwer, Darwin Comment Type TR After the combinatio individual changes, t other clauses. This	e 98 being maintained. It is so us the IR PHY, or mark it deprecated <i>Response Status</i> O <i>P</i> 0 <i>Comment Status</i> X n of the base standard, the subset there remain unresolved inconsis applies to this clause and all sub-	d and unm <i>L</i> 0 equent ami stencies be	aintained. <i>MyBallot</i> # 510 mendments and more focusec tween the text in this clause a	

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 83 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written
 C/closed
 U/unsatisfied Z/withdrawn
 5/18/2005 11:29:06 AM
 C/closed
 112

 SORT ORDER:
 Clause, Subclause, page, line
 C/closed
 U/unsatisfied Z/withdrawn
 5/18/2005 11:29:06 AM
 C/closed
 12

Bob O'Hara, Cisco Systems

May 2005 IEEE P802.11REV	am Draft 1.0 Comments - doc: IEEE 802.11-05/0482r0
Cl 17 SC 17.3.10.5 P 0 L 0 MyBallot # 304 Kruys, Jan Kruys, Jan	Cl 17 SC 17.4.4 P0 L0 MyBallot # 258
Comment TypeTRComment Status XThe CCA definition is ambiguous and unless more clearly defined may not be useful as tool to detect other spectrum users. This is becoming an issue with the possibility of 802.16 systems being deployed in the 5.8 GHz range. Therefore it is necessary to be able to differentiate between energy and a .11signal. Since defering for other energy sources may be subject to a different threshold than defering to .11 signals, a separate threshold is needed for each. (note this addition of the CS	Comment Type TR Comment Status X No reason to consider aPHY-RX-STARTDelay. See comments on section 9.2.5.7 and 9.2.8. SuggestedRemedy Remove aPHY-RX-START-Delay from table 113. Proposed Response Response Status O
SuggestedRemedy The start of a valid OFDM transmission at a receive level equal to or greater than the minimur modulation and coding rate sensitivity (û82 dBm for 20 MHz channel spacing and û85 dBm fo 10 MHz channel spacing) shall cause CCA to indicate busy with a probability > 90% within 4.1 for 20 MHz channel spacing and 8.2s for 10 MHz channel spacing. In addition and irrespective of preamble detection, the receiver shall hold the ED signal busy for any signal above the sensitivity levels given above. Note for the editor: this change requires consequent changes the have not been provideed here. Internal Note1: the addition of the ED signal allows the MAC to interprete the RSSI value more precisely as belonging to a signal or just energy. Deciding to defer transmission for a given combination of ED, CCA and RSSI values is left to implementation.	Cl 17 SC 17.4.4 P 0 L 0 MyBallot # 441 Raissinia, Ali Comment Type TR Comment Status X The added aPHY-RX-START-Delay in Table 113 is 24us. SuggestedRemedy What is the reason for selected 24us number. Proposed Response Response Status 0
Proposed Response Response Status O	C/ 17 SC 17.4.4 P0 L0 MyBallot # 27
CI 17 SC 17.3.9.2 P0 L0 MyBallot # 397 LEMBERGER, URIEL Comment Type ER Comment Status X	Comment Type TR Comment Status X No reason to keep aPHY-RX-STARTDelay. See my comments on section 9.2.5.7 and 9.2.8.
Spectral mask is defined in figure 199 and again in I.2.3 SuggestedRemedy	SuggestedRemedy Remove aPHY-RX-START-Delay from table 113.
Have one location in the document where the definition are written and reference to this point where necessary in other parts of the document.	Proposed Response Response Status O
Proposed Response Response Status O	

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 Page 84 of 112 5/18/2005 11:29:06 AM C/ 17 SORT ORDER: Clause, Subclause, page, line SC 17.4.4

May 2005		IEEE P802.11REV-ar	m Draft 1.0 Comments -		doc:	IEEE 802.11-05/0482r0
C/ 18 SC 18. Engwer, Darwin	PO LO	MyBallot # 511	C/ 18 SC 18.3.3 Gohda, Wataru	P 0	LO	MyBallot # 28
individual changes, the	Comment Status X f the base standard, the subsequent am re remain unresolved inconsistencies be plies to this clause and all subclauses the ncies.	tween the text in this clause a	SuggestedRemedy	Comment Status X IY-RX-STARTDelay. See my c ART-Delay from table 121. Response Status O	omments o	on section 9.2.5.7 and 9.2.8.
Proposed Response	Response Status O		C/ 18 SC 18.3.3 Jalfon, Marc	P 0	LO	MyBallot # 531
Cl 18 SC 18.3.3 Miki, Morgan Comment Type TR No reason to consider a SuggestedRemedy	P0 L0 Comment Status X aPHY-RX-STARTDelay. See comments	<i>MyBallot</i> # 2 <u>59</u> on section 9.2.5.7 and 9.2.8.	Comment Type TR	Comment Status X PHY-RX-START-Delay to be 0	us. This is	s wrong.
Remove aPHY-RX-STA Proposed Response	ART-Delay from table 121. <i>Response Status</i> 0		Proposed Response	Response Status O		
C/ 18 SC 18.3.3	PO LO	MyBallot # 39	<i>Cl</i> 18 SC 18.4.6.2 LEMBERGER, URIEL	P 0	L 0	MyBallot # 398
Stephens, Adrian			Comment Type TR Table 126 is incorrect.	Comment Status X		
Comment Type TR Table 121 shows the af SuggestedRemedy Set to value of 192us.	Comment Status X PHY-RX-START-Delay to be 0us. This is	s wrong.	part of ETSI.	nt, for example , FCC allows C	h 12,13 wi	th mask restrictions, France is
Proposed Response	Response Status O		Proposed Response	Response Status O		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 85 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:06 AM
 C/ 18
 SC 18.4.6.2

May 2005		IEEE P802.11REV-a	m Draft 1.0	0 Comments	-	d	oc: IEEE 802.11-05/0482r0
C/ 18 SC 18.4.7.1 P0 LEMBERGER, URIEL	LO	MyBallot # 399	<i>Cl</i> 19 Adachi, T	SC 19.3.2.4 omoko	l.1 F	°0 L(MyBallot # 2
Comment TypeERComment StatusXTransmit power level in subclause 17 refers to annex136 137 , and again in table I.6	x I and in sub	clause 18 it appears in table		e is "à" in the exp	<i>Comment State</i> pression but it is uncl TH field in clause 19	ear what it means.	. There is a similar expression for no "à" for this case.
SuggestedRemedy			Suggeste	dRemedy			
use consistant way to define Transmit power requirer	ment in all se	ctions.	Delet	e "à" in the expr	ession.		
Proposed Response Response Status O			Proposed	Response	Response Statu	is O	
<i>Cl</i> 19 SC 19 . <i>P</i> 0 Engwer, Darwin	L 0	MyBallot # 512	<i>Cl</i> 19 Adachi, T	SC 19.4.6 omoko	F	°0 L0	MyBallot # 3
Comment Type TR Comment Status X After the combination of the base standard, the subsection of the base standard of the base standard of the subsection of the base standard of the subsection of the base standard of the subsection of the base states of the subsection of the base status of the subsection of the base states of the base states of the subsection of the base states of the b	stencies betw	een the text in this clause a	Suggeste Expre	e is a phrase "EF dRemedy	Comment State RP PHY" but this will ". (Delete "PHY".) Response State	be Extended rate	PHY PHY. PHY is redundant.
Cl 19 SC 19.3.2.1 P0 Myles, Andrew	LO	MyBallot # 460	Cl 19 Palm, Ste Comment	t Type TR	Comment State		
Comment Type TR Comment Status X The text in 19.3.2.1 specifies that all ERP systems shincluding 1 & 2Mb/s systems. The text in 15.2.3.4 specifies systems, is set equal to 0 on transmit. Unfortunately, some test houses have interpreted the	ecifies this bi	t is reserved for 1 & 2Mb/s	Suggeste Clear	dRemedy	used without being nces for all of the 80 <i>Response Statu</i>	2.11a through 802	
systems shall set the Locked Clock Bit equal to 1.							
SuggestedRemedy Change 19.3.2.1 to make clear that the Locked Clock systems	k bit make be	set equal to 0 for 1 & 2Mb/s					
Proposed Response Response Status O							

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 86 of 112

 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/ 19
 SC

SC 19.7.2.6

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ 19 SC 19.8.4 P 0 L 0 MyBallot # 260 Miki, Morgan	C/ A SC A. P0 L0 MyBallot # 513 Engwer, Darwin
Comment Type TR Comment Status X No reason to consider aPHY-RX-STARTDelay. See comments on section 9.2.5.7 and 9.2.8. SuggestedRemedy Remove aPHY-RX-START-Delay from table 144. Proposed Response Response Status O	Comment Type TR Comment Status X After the combination of the base standard, the subsequent ammendments and more focused individual changes, there remain unresolved inconsistencies between the text in this clause a other clauses. This applies to this clause and all subclauses thereof. SuggestedRemedy Resolve the inconsistencies. Proposed Response Response Status O
Cl 19 SC 19.8.4 P 0 L 0 MyBallot # 41 Stephens, Adrian	CI A SC A. PO LO MyBallot # 463
Comment Type TR Comment Status X aPHY-RX-START-Delay is not zero for non-ERP-OFDM cases. However because this table is specific to the ERP-OFDM case the phrase "and 0us otherwise is unnecessary (and wrong).	Cr A SC A. P 0 L 0 MyBallot # 463 McClellan, Kelly Comment Type TR Comment Status X The conformance coverage of the PICS is stated as "IEEE Std 802.11, 1999". The scope of
SuggestedRemedy Remove quoted phrase. Proposed Response Response Status O	the PICS includes newer options that are not part of the 1999 revision. SuggestedRemedy Change to appropriate publication/revision date, and add an informative note relating the 199 revision to newer extensions to the standard.
C/ 19 SC 19.8.4 P0 L0 MyBallot # 29	Proposed Response Response Status O
Gohda, Wataru Comment Type TR Comment Status X No reason to keep aPHY-RX-STARTDelay. See my comments on section 9.2.5.7 and 9.2.8. SuggestedRemedy Remove aPHY-RX-START-Delay from table 144. Proposed Response Response Status O	Cl A SC A.4.10 P0 L0 MyBallot # 360 Black, Simon Comment Type TR Comment Status X Simon Most of PICS Item MD1 concerns the country element and its fields. However the dot11MultiDomainCapabilityEnabled attribute dot11MultiDomainCapabilityEnabled attribute seem to have sneaked into the middle of the text (and are not in the references). SuggestedRemedy Clarify
	Proposed Response Response Status O

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 87 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed
 U/unsatisfied Z/withdrawn
 5/18/2005 11:29:07 AM
 C/ A
 SC A.4.10

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

Cl A Ecclesine,	SC A.4.3 Peter	P 0	L 0	MyBallot # 163	<i>Cl</i> C Jalfon, Ma	SC C. arc	P 0	L 0	MyBallot # 533
Comment The tid		Comment Status X the Support column are circles	6		Comment The S		Comment Status X nance nightmare and is practical	ly useless	3.
Suggested chang	<i>IRemedy</i> e to boxes				Remo	edRemedy ove Annex C.	as "Informative - historic interest	only"	
Proposed	Response	Response Status O				l Response	Response Status O	only .	
CI A Ecclesine,	SC A.4.8 Peter	P 0	L 0	MyBallot # 162	CI C	SC C .	P 0	L 0	MyBallot # 514
Comment		Comment Status X		- 0	Engwer, I Comment		Comment Status X		
Suggested		6 Mbit/s status shown as M, ar	ia snoula b	0	indivi	dual changes, tl	of the base standard, the subsenere remain unresolved inconsis applies to this clause and all sub	tencies be	etween the text in this clause a
Proposed	Response	Response Status O			•••	dRemedy lve the inconsis	tencies.		
C/ C Myles, And	SC C. drew	P 0	L 0	MyBallot # 141	Proposed	l Response	Response Status O		
Comment	<i>Type</i> TR DL is mostly inco	Comment Status X	the current	standard. It just wastes	CI C Stephens		P 0	L 0	MyBallot # 42
Suggested	Remedy				Few t	SDL is a mainter task groups hav	Comment Status X nance nightmare and is practical e the means to maintain this mo	del. The	model itself contains some ver
Remove entire annex Proposed Response Response Status O		does reflec Those	not match the a at the changes a e who have seri	SDL (such as extensive sharing rchitecture presented in the bod pproved in 802.11i. ously tried to use the model (I ha t is somehow "normative".	y text, an	d it has not been updated to			
					Suggeste	dRemedy			
							for normative behaviour not defiert (there should be none).	ned elsew	where and move to appropriate
						ove Annex C. natively mark is	as "Informative - historic interest	only".	
					Proposed	l Response	Response Status 0		
TYPE: TR	/technical require	ed ER/editorial required GR/c	jeneral reg	uired T/technical E/editorial G	i/general				D

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 Page 88 of 112 5/18/2005 11:29:07 AM C/ C SC C.

Submission

May 2005			IEEE P802.11REV-a	am Draft 1.0	Comments ·		doc	IEEE 802.11-05/0482r0
C/ C SC C. Myles, Andrew	P 0	L 0	MyBallot # 459	Cl D Ecclesine,	SC D. Peter	P 0	L 0	MyBallot # 164
Comment Type TR The SDL is mostly inco paper/bits SuggestedRemedy Remove entire annex Proposed Response	Comment Status X prrect and has little connect to Response Status O	the current	standard. It just wastes	Suggested	RegulatoryClass Remedy after dot11RSN/	Comment Status X esTable, dot11smt 13 missing or AStatsTable Response Status O	n page 8()2
C/ C SC C. page Hillman, Garth	597 PO	LO	MyBallot # 344	C/ D Ecclesine, Comment T		P 0 Comment Status X	LO	MyBallot # 165
Comment Type T I thought IEEE 802.11	Comment Status X had decided to deprecate the	SDL descri	ption?		02, missing dot	11RegulatoryClassesImplemente	ed and do	ot11RegulatoryClassesRequir
SuggestedRemedy If we have then so stat	e.			Suggested insert a	-	APreauthenticationImplemented		
Proposed Response	Response Status O			Proposed I	Response	Response Status O		
C/ D SC D. Ecclesine, Peter	P 0	LO	MyBallot # 173	<i>Cl</i> D Ecclesine,	SC D. Peter	P 0	L 0	MyBallot # 166
Comment Type TR on page 854, the 802.1	Comment Status X	or object is r	missing		10, missing attr	Comment Status X ibutes for dot11RegulatoryClasse	esImplen	nented and
SuggestedRemedy insert object from Ame	ndment 802.11j			Suggested		eskequired		
Proposed Response	Response Status O			Proposed F		Response Status O		

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 Page 89 of 112 5/18/2005 11:29:07 AM C/ D SC D. SORT ORDER: Clause, Subclause, page, line

May 2005			IEEE P802.11REV-a	m Draft 1.0 Comments	; -	doc	:: IEEE 802.11-05/0482
C/ D SC D. Ecclesine, Peter	P 0	LO	MyBallot # 167	C/ D SC D. Ecclesine, Peter	P 0	L 0	MyBallot # 170
Comment Type TR on p820, dor11Regula	Comment Status X atoryClasses TABLE is missing	gafter dot11	SpectrumManagement	Comment Type TR on page 845, the 802	Comment Status X 2.11j values and text is missing		
SuggestedRemedy Insert TABLE in prope	r place			SuggestedRemedy insert corrections fro	m Amendment 802.11j		
Proposed Response	Response Status O			Proposed Response	Response Status 0		
<i>Cl</i> D <i>SC</i> D . Ecclesine, Peter	P 0	L 0	MyBallot # 168	C/ D SC D. Richard, Paine	P 0	L 0	MyBallot # 593
using Japan, like Frances SuggestedRemedy	Comment Status X anese regulatory authority is n ice and Spain nainsSupportedTable and dot1	-		Comment Type E P876L5 Is the Editor SuggestedRemedy Drop the Editor's Not Proposed Response	Comment Status X 's Note really necessary? re Response Status O		
Proposed Response	Response Status O						
	P 0 <i>Comment Status</i> X ChannelStartingFactor is missi	L 0	MyBallot # 169	C/ D SC D. Black, Simon Comment Type TR Additions to the .11 I conformance group. SuggestedRemedy	P 0 Comment Status X MIB for spectrum management d	L 0 on't seem	MyBallot # 361
SuggestedRemedy insert, dot11ChannelS INTEGER	StartingFactor Integer 32 after	entry for do	ot11FrequencyBandsSupporte	Review conformance Proposed Response	e groups. Response Status O		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 90 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:07 AM
 C/ D
 SC D.

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

Comment Type TR				Ecclesine, Peter			
on page 851, the 802.11 SuggestedRemedy insert reference from An Proposed Response	Comment Status X Ij dot11RegulatoryClassesG nendment 802.11j Response Status O	roup is miss	ng	Implemented and d SMT base 4 are sh SuggestedRemedy	Comment Status X 1j deprecated SMT base 3, and a ot11RegulatoryClassesRequired own as current om Amendment 802.11j and dep	to SMT bas	se 5. Both SMT base 3 and
C/ D SC D. Engwer, Darwin	P 0	L 0	MyBallot # 515	Proposed Response	Response Status O		
individual changes, ther	e remain unresolved inconsi lies to this clause and all sul	stencies bet	nendments and more focusec ween the text in this clause a reof.		P0 Comment Status X CapabilityImplemented has MAX- on of the device is a neat trick, bu ESS into read-only Response Status 0		
	P0 Comment Status X mentImplemented has MAX- tion of the device is a neat tr into read-only Response Status 0			C/ D SC D. Ecclesine, Peter Comment Type TR on page 845, the 8 SuggestedRemedy insert object from A Proposed Response	P0 Comment Status X 02.11j dot11ChannelStartingFact mendment 802.11j Response Status 0	L0	<i>MyBallot</i> # 171

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 91 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:07 AM
 C/ D
 SC D.

May 2005		IEEE P802.11REV-a	m Draft 1.0 Commer	nts -	doc	: IEEE 802.11-05/0482r0
CI E SC E. Engwer, Darwin	P0 L0	MyBallot # 516	CIESCE.	P 0	LO	MyBallot # 494
individual changes, the	Comment Status X of the base standard, the subsequent ammere remain unresolved inconsistencies between plies to this clause and all subclauses the	ween the text in this clause a	SuggestedRemedy	for 802.11F per references in Anr	nex M.	
SuggestedRemedy				802.11F in Annex E.		
Resolve the inconsister	ncies.		Proposed Response	Response Status O		
Proposed Response	Response Status O		C/ E SC E. Odman, Knut	P 0	LO	MyBallot # 568
C/ E SC E. Engwer, Darwin	P0 L0	MyBallot # 493	Comment Type E	Comment Status X		
Comment Type TR Missing a citation to an reference is in clause 5 SuggestedRemedy	Comment Status X ISO standard per Message Sequence Ch 5.9.2.1).	narts used in the draft (first	guide, clause 19: by the working gro	clause shall be the first or last clau "Complete and current informatio oup. The bibliography always shal the first or last annex of the stand	n for bibliogr Il be an infori	aphic entries shall be supplied mative numbered annex that
Add a reference to the	corresponding ISO standard. add a reference Charts (MSC) per multiple uses the		SuggestedRemedy Reorder with the r	new annexes so that the bibliogra	phy clause b	ecomes Annex N
				6		
Proposed Response	Response Status O		Proposed Response	Response Status O		
Proposed Response C/ E SC E. Engwer, Darwin	Po Lo	MyBallot # 526	Proposed Response	Response Status O	LO	MyBallot # 517
C/ E SC E.		MyBallot # 5 <u>26</u>	C/F SCF.	Р 0	LO	MyBallot # 517
CI E SC E. Engwer, Darwin Comment Type TR Missing a reference to	P0 L0 Comment Status X the Unified Modeling Language Reference	e manual per the editor's	CI F SC F. Engwer, Darwin Comment Type TR After the combinat	P 0 Comment Status X tion of the base standard, the sub	osequent am	mendments and more focusec
CI E SC E. Engwer, Darwin Comment Type TR Missing a reference to	P0 L0 Comment Status X	e manual per the editor's	CI F SC F. Engwer, Darwin Comment Type TR After the combinat individual changes	P 0 Comment Status X	osequent am	mendments and more focusec tween the text in this clause a
CI E SC E. Engwer, Darwin Comment Type TR Missing a reference to instructions in doc 11-0 SuggestedRemedy	P0 L0 Comment Status X the Unified Modeling Language Reference	e manual per the editor's	CI F SC F. Engwer, Darwin Comment Type TR After the combinat individual changes	P 0 <i>Comment Status</i> X tion of the base standard, the sub s, there remain unresolved incons	osequent am	mendments and more focusec tween the text in this clause a
CI E SC E. Engwer, Darwin Comment Type TR Missing a reference to instructions in doc 11-0 SuggestedRemedy	P0 L0 Comment Status X the Unified Modeling Language Reference 55-0120-09, see page 10 in that submissio	e manual per the editor's	C/ F SC F. Engwer, Darwin Comment Type TR After the combinat individual changes other clauses. Th	P0 Comment Status X tion of the base standard, the sub s, there remain unresolved incons is applies to this clause and all su	osequent am	mendments and more focusec tween the text in this clause a

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 92 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:07 AM
 C/ F
 SC F.

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

CI G SC G . Engwer, Darwin	P 0	L 0	MyBallot # 518	C/ H Chaplin, (SC H.4.1	P 0	L 0	MyBallot # 412	
Comment Type TR	Comment Status \mathbf{X}	sequent am	mendments and more focusec	Commen	t Type TR	Comment Status X	us about 2.5 h	its of security per character, s	
individual changes, the		sistencies be	tween the text in this clause a	the p secu	ass-phrase map rity." is not tech	ping converts an n octet pass nically correct. It is mixing two	word into a k o different typ	ey with about 2.5n + 12 bits of es of measurements of	
SuggestedRemedy Resolve the inconsiste	ncies.			comp	security, and the two types are not comparable. I look at this as comparable to trying to compare and add together measurements of pound force and pound mass. The measurement of pass phrase security of 2.5 bits per character is really a measurement of				
Proposed Response	Response Status O			cryptographic entropy, which is a precisely defined measurement in the crypto worl measurement of 12 bits of security is, on the other hand, really a measurement of t computational complexity of the task of the hash. It is unclear that a bit of the pass					
C/ H SC H. Engwer, Darwin	P 0	L 0	MyBallot # 519		different process	nt is equal to a bit of the comp or architectures), so simple a		rt (the ratio is probably differei se two measurements cannot	
Comment Type TR	Comment Status X			Suggeste	dRemedy				
individual changes, the		sistencies be	mendments and more focused tween the text in this clause a ereof.	2.5 b	its of cryptograp	Alternatively, change the ser hic entropy per character, whi ey requiring quite a bit of comp	le the pass-p		
SuggestedRemedy Resolve the inconsiste	ncies.			Proposed	l Response	Response Status O			
Proposed Response	Response Status O			C/ H LEMBER	SC H.6 GER, URIEL	P 0	L 0	MyBallot # 400	
C/ H SC H.3.2 Stephens, Adrian	P 0	LO	MyBallot # 43	Commen Table	51	Comment Status X g Does the 04 05 in second ra	aw belongs to	o description #1?	
Comment Type E The phrase "what do y	Comment Status X a wantà" is not gramatically	correct. Also	in table H.10.	00	dRemedy y the table, com	bine raw 1,2 in column 2.			
SuggestedRemedy Replace "ya" with "you	", and recalculate the PRF-5	12.		Proposed	l Response	Response Status O			
Proposed Response	Response Status O								

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 93 of 112

 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/ H
 SC H.6

Submission

IEEE P802.11REV-am Draft 1.0 Comments -

C/ H SC H.7.1 P0 L0 MyBallot # 587 Cam-Winget, Nancy	C/ H SC H.7.1.2 P0 L0 MyBallot # 589 Cam-Winget, Nancy
Comment Type T Comment Status X The test vectors use the incorrect nonce lengths (20 whereas they should be 23).	Comment Type T Comment Status X Using the correct test vectors, the Keys need to be updated.
SuggestedRemedy Stretch the nonces to be as required for 802.11i (e.g. 32 octets). For the Anonce, use: {0xe0, 0xe1, 0xe2, 0xe3, 0xe4, 0xe5, 0xe6, 0xe7, \ 0xe8, 0xe9, 0xf0, 0xf1, 0xf2, 0xf3, 0xf4, 0xf5, \ 0xf6, 0xf7, 0xf8, 0xf9, 0xfa, 0xfb, 0xfc, 0xfd, \ 0xfe, 0xff, 0x00, 0x01, 0x02, 0x03, 0x04, 0x05} For the SNonce, use: {0xc0, 0xc1, 0xc2, 0xc3, 0xc4, 0xc5, 0xc6, 0xc7, \ 0xc8, 0xc9, 0xd0, 0xd1, 0xd2, 0xd3, 0xd4, 0xd5, \ 0xd6, 0xd7, 0xd8, 0xd9, 0xda, 0xdb, 0xdc, 0xdd, \ 0xde, 0xdf, 0xe0, 0xe1, 0xe2, 0xe3, 0xe4, 0xe5}	SuggestedRemedy KCK = 37 9f 98 52 d0 19 92 36 b9 4e 40 7c e4 c0 e c8 KEK = 47 c9 ed c0 1c 2c 6e 5b 49 10 ca dd fb 3e 51 a7 TK = b2 36 c 79 e9 71 f dd 58 be a9 3d ea f0 65 99 db 98 a fb c2 9c 15 28 55 74 a 6c e5 ae 38 27 Authenticator Tx Key = db 98 a fb c2 9c 15 28
Proposed Response Response Status O	Supplicant Tx Key = 55 74 a 6c e5 ae 38 27 Proposed Response Response Status O
C/ H SC H.7.1.1 P 0 L 0 MyBallot # 588 Cam-Winget, Nancy	CI I SC I. PO LO MyBallot # 520
Comment Type T Comment Status X Using the correct test vectors, the TK needs to be updated. SuggestedRemedy The TK is now: b2 36 c 79 e9 71 f dd 58 be a9 3d ea f0 65 99	Engwer, Darwin Comment Type TR Comment Status X After the combination of the base standard, the subsequent ammendments and more focus individual changes, there remain unresolved inconsistencies between the text in this clause other clauses. This applies to this clause and all subclauses thereof. SuggestedRemedy Resolve the inconsistencies. Proposed Response Response Status O
Comment Type T Comment Status X Using the correct test vectors, the TK needs to be updated. SuggestedRemedy The TK is now: b2 36 c 79 e9 71 f dd 58 be a9 3d ea f0 65 99	Engwer, Darwin Comment Type TR Comment Status X After the combination of the base standard, the subsequent ammendments and more focus individual changes, there remain unresolved inconsistencies between the text in this clause other clauses. This applies to this clause and all subclauses thereof. SuggestedRemedy Resolve the inconsistencies. Proposed Response Response Status O C/ I SC I. P0 L0 MyBallot # 637
Comment Type T Comment Status X Using the correct test vectors, the TK needs to be updated. SuggestedRemedy The TK is now: b2 36 c 79 e9 71 f dd 58 be a9 3d ea f0 65 99	Engwer, Darwin Comment Type TR Comment Status X After the combination of the base standard, the subsequent ammendments and more focus individual changes, there remain unresolved inconsistencies between the text in this clause other clauses. This applies to this clause and all subclauses thereof. SuggestedRemedy Resolve the inconsistencies. Proposed Response Response Status O Cl I SC I. PO LO MyBallot # [637]
Comment Type T Comment Status X Using the correct test vectors, the TK needs to be updated. SuggestedRemedy The TK is now: b2 36 c 79 e9 71 f dd 58 be a9 3d ea f0 65 99	Engwer, Darwin Comment Type TR Comment Status X After the combination of the base standard, the subsequent ammendments and more focus individual changes, there remain unresolved inconsistencies between the text in this clause other clauses. This applies to this clause and all subclauses thereof. SuggestedRemedy Resolve the inconsistencies. Proposed Response Response Status O C/ I SC I. P0 L0 MyBallot # 637 Inoue, Yasuhiko Comment Type E Comment Status X MPHPT (Ministry of Public Management, Home, Post and Telecommunication) has change

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 94 of 112

 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
 5/18/2005
 11:29:07 AM

May 2005		IEEE P802.11REV-ar	m Draft 1.0 Comments	S -	doc	IEEE 802.11-05/0482r0
C/ J SC J. Engwer, Darwin	PO LO	MyBallot # 521	C/ J SC J.1 LEMBERGER, URIEL	P 0	L 0	MyBallot # 402
individual changes, th	Comment Status X of the base standard, the subsequent ammere remain unresolved inconsistencies be applies to this clause and all subclauses the	tween the text in this clause a	SuggestedRemedy	Comment Status X class belongs Ch 165 in the US?		
SuggestedRemedy			Add this channel to t			
Resolve the inconsist	encies.		Proposed Response	Response Status O		
Proposed Response	P0 L0	MyBallot # 401	C/ J SC J.1 LEMBERGER, URIEL	P 0	LO	MyBallot # 403
LEMBERGER, URIEL			Comment Type TR To which regulatory	Comment Status X class belongs Ch 100-140 in the I	US?	
regulatory requirement	Comment Status X possistant, for a,b,g ammendmends the infor nt is part of the subclauses 15,18,19 while quiments are seperated as informative and	j ammendmend is only an anr	SuggestedRemedy Add these channels	to the table		
SuggestedRemedy			Proposed Response	Response Status O		
Move relative regulat	ory references to annex J					
Proposed Response	Response Status O		C/ K SC K. Engwer, Darwin	P 0	L 0	MyBallot # 522
C/ J SC J.		MyBallot # 638	individual changes, t	Comment Status X n of the base standard, the subse there remain unresolved inconsist applies to this clause and all subc	encies be	tween the text in this clause a
	Commont Status V					
Comment Type E MPHPT (Ministry of F	Comment Status X Public Management, Home, Post and Telec (Ministry of Internal Affairs and Communic		SuggestedRemedy Resolve the inconsis	stencies.		
MPHPT (Ministry of F	Public Management, Home, Post and Telec (Ministry of Internal Affairs and Communic			stencies. Response Status O		

May 2005 IEEE P802.11REV-a	am Draft 1.0 Comments - doc: IEEE 802.11-05/0482r0
C/ K SC K. P0 L0 MyBallot # 486	C/ K SC K. P0 L0 MyBallot # 488 Engwer, Darwin
Comment TypeTRComment StatusXFigure K2 is wrong, should not show AID 0 pointing to two bits, only one. In general, figure K2 should be made to agree with the example 2 figure in doc 11-05-0069-02	Comment Type TR Comment Status X Sample code: Build_TIM (): The second for() loop has a test condition "i > 0"; this is wrong the loop should terminate at one, since AID 0 is never used.
SuggestedRemedy Delete the angled AID 0 notation line.	SuggestedRemedy Change "(i > 0)" to "(i > 1)".
Proposed Response Response Status O	Proposed Response Response Status O
CI K SC K. P0 L0 MyBallot # 485 Engwer, Darwin	C/ K SC K. P 0 L 0 MyBallot # 484
Comment Type TR Comment Status X Figure K1 is wrong, should not show AID 0 pointing to two bits, only one. In general, figure K' should be made to agree with the example 1 figure in doc 11-05-0069-02 SuggestedRemedy SuggestedRemedy Delete the angled AID 0 notation line.	Comment Type ER Comment Status X use spaces rather than tabs to make the source code indents line up correctly SuggestedRemedy see new submission 11-05-0069-03, which inclues all my requested changes to the source code that are cited in my letter ballot comments.
Proposed Response Response Status O	Proposed Response Response Status O
CI K SC K. P0 L0 MyBallot # 487 Engwer, Darwin	C/ K SC K. P 0 L 0 MyBallot # 489 Engwer, Darwin
Comment Type TR Comment Status X Sample code: Build_TIM (): The first for() loop has an initial statement of "i = 0"; this is wrong the loop should start at one, since AID 0 is never used.	Comment Type TR Comment Status X Sample code: Update_VirtualBitMap(): It is illegal to try to set AID 0 since that value is never used. The function should validate the incoming paramters to ensure this condition.
SuggestedRemedy Change "for (i = 0;" to "for (i = 1;". Proposed Response Response Status O	SuggestedRemedy Place the bulk of the operational lines of the function within a conditional block as follows: "if ((aid > 0) && (aid < AID_SIZE))".
	Proposed Response Response Status O

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ K SC K.; clause K.1; page 9 Hillman, Garth	94 PO LO	MyBallot # 345	C/ K SC K.2 P 0 L 0 MyBallot # 605 Reuss, Edward 605
Comment Type E Comment typo SuggestedRemedy	t Status X		Comment Type E Comment Status X The term "broadcasts and multicasts" is too colloquial. Elsewhere, the term "broadcast" was changed to "wildcard"
a the -> a			SuggestedRemedy
Proposed Response Response	Status O		Change all instances of "broadcasts and multicasts" to "broadcast and multicast packets".
Troposed Response Response			Proposed Response Response Status O
C/ K SC K.1 Karcz, Kevin	P 0 L 0	MyBallot # 267	C/ K SC K.2 P0 L0 MyBallot # 585 McCann, Stephen
Comment Type E Comment extra "a" in "encoding a the Partial"	t Status X		Comment Type E Comment Status X typo in second paragraph
SuggestedRemedy edit			SuggestedRemedy change "inforamtion" to "information"
Proposed Response Response	Status O		Proposed Response Response Status O
C/ K SC K.2 Reuss, Edward	P 0 L 0	MyBallot # 606	C/ K SC K.3 P0 L0 MyBallot # 230 Mike, Moreton
Poor syntax - "in AP"	t Status X		Comment Type TR Comment Status X "#if 0", "#if 1" - these just look silly in example code.
SuggestedRemedy			SuggestedRemedy
Change all instances of "in AP" to "in			Pass a parameter to the program indicating which test you want to run.
Proposed Response Response	Status O		Proposed Response Response Status O
C/ K SC K.2 Karcz, Kevin	P0 L0	MyBallot # 266	
Comment Type E Comment "inforamtion" is mispelled	t Status X		
SuggestedRemedy edit			
Proposed Response Response	Status O		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 97 of 112

 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/ K
 SC K.3

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

Cl K SC K.3 P0 L0 MyBallot # [2] Karcz, Kevin </th <th>68 C/ K SC K.3 P0 L0 MyBallot # 229 Mike, Moreton</th>	68 C/ K SC K.3 P 0 L 0 MyBallot # 229 Mike, Moreton
Comment Type E Comment Status X misspellings in "no efficienty or appropirateness" SuggestedRemedy	Comment Type TR Comment Status X If you must define new names for standard C constructs, it would be wise to use ones that aren't as vague as "BYTE" and "WORD" - after all we don't use byte elsewhere in the docume for that reason.
edit Proposed Response Response Status O	SuggestedRemedy
	"uint8" and "uint16" seem to be fairly common.
C/ K SC K.3 PO LO MyBallot #	Proposed Response Response Status O
Reuss, Edward Comment Status X Comment Type E Comment Status X The C language #define statements are not formatted correctly.	C/L SCL. P 0 L 0 MyBallot # 101 Oakes, Ivan Comment Type TR Comment Status X
	Comment Type TR Comment Status X
SuggestedRemedy Change "ADD_TIM_BIT0" to "ADD_TIM_BIT 0", "REMOVE_TIM_BIT1" to REMOVE_TIM_BIT 1", "TIM_ELEMENT_ID5" to "TIM_ELEMENT_ID 5", "TIM_BASE_SIZE3" to "TIM_BASE_SIZE 3", "AID_SIZE2008" to "AID_SIZE 20 "VBM_SIZE251" to "VBM_SIZE 251".	O8", Annex L uses the term "Portal integration" and "integration function" when it should use "Integration Service" as defined previosuly (see 3.57, 5.2) O8", SuggestedRemedy Replace the text "Portal integration" and "integration function" in Annex L by "Integration Service"
Change "ADD_TIM_BIT0" to "ADD_TIM_BIT 0", "REMOVE_TIM_BIT1" to REMOVE_TIM_BIT 1", "TIM_ELEMENT_ID5" to "TIM_ELEMENT_ID 5", "TIM_BASE_SIZE3" to "TIM_BASE_SIZE 3", "AID_SIZE2008" to "AID_SIZE 20	"Integration Service" as defined previosuly (see 3.57, 5.2) SuggestedRemedy Replace the text "Portal integration" and "integration function" in Annex L by "Integration
Change "ADD_TIM_BIT0" to "ADD_TIM_BIT 0", "REMOVE_TIM_BIT1" to REMOVE_TIM_BIT 1", "TIM_ELEMENT_ID5" to "TIM_ELEMENT_ID 5", "TIM_BASE_SIZE3" to "TIM_BASE_SIZE 3", "AID_SIZE2008" to "AID_SIZE 20 "VBM_SIZE251" to "VBM_SIZE 251".	"Integration Service" as defined previosuly (see 3.57, 5.2) D8", SuggestedRemedy Replace the text "Portal integration" and "integration function" in Annex L by "Integration Service" Proposed Response Response Status O C/ L SC L. PO LO MyBallot # 147
Change "ADD_TIM_BIT0" to "ADD_TIM_BIT 0", "REMOVE_TIM_BIT1" to REMOVE_TIM_BIT 1", "TIM_ELEMENT_ID5" to "TIM_ELEMENT_ID 5", "TIM_BASE_SIZE3" to "TIM_BASE_SIZE 3", "AID_SIZE2008" to "AID_SIZE 20 "VBM_SIZE251" to "VBM_SIZE 251". Proposed Response Response Status C/ K SC K.3 P0 L0 MyBallot # [6]	 "Integration Service" as defined previosuly (see 3.57, 5.2) SuggestedRemedy Replace the text "Portal integration" and "integration function" in Annex L by "Integration Service" Proposed Response Response Status O O7 C/ L SC L. PO LO MyBallot # 147 Visscher, Bert Comment Type TR Comment Status X
Change "ADD_TIM_BIT0" to "ADD_TIM_BIT 0", "REMOVE_TIM_BIT1" to REMOVE_TIM_BIT 1", "TIM_ELEMENT_ID5" to "TIM_ELEMENT_ID 5", "TIM_BASE_SIZE3" to "TIM_BASE_SIZE 3", "AID_SIZE2008" to "AID_SIZE 20 "VBM_SIZE251" to "VBM_SIZE 251". Proposed Response Response Status C/ K SC K.3 P0 L0 MyBallot # [e Comment Type E Comment Status X	"Integration Service" as defined previosuly (see 3.57, 5.2) SuggestedRemedy Replace the text "Portal integration" and "integration function" in Annex L by "Integration Service" Proposed Response Response Status O C/ L SC L. P O L O MyBallot # 147 Visscher, Bert
Change "ADD_TIM_BIT0" to "ADD_TIM_BIT 0", "REMOVE_TIM_BIT1" to REMOVE_TIM_BIT 1", "TIM_ELEMENT_ID5" to "TIM_ELEMENT_ID 5", "TIM_BASE_SIZE3" to "TIM_BASE_SIZE 3", "AID_SIZE2008" to "AID_SIZE 20 "VBM_SIZE251" to "VBM_SIZE 251". Proposed Response Response Status O C/ K SC K.3 P0 L0 MyBallot # [Reuss, Edward Comment Type E Comment Status X Multiple spelling and syntax errors	 "Integration Service" as defined previosuly (see 3.57, 5.2) SuggestedRemedy Replace the text "Portal integration" and "integration function" in Annex L by "Integration Service" Proposed Response Response Status O C/ L SC L. P0 L0 MyBallot # 147 Visscher, Bert Comment Type TR Comment Status X The translation of Ethernet type encoded and LLC encoded tagged frames is often the source of interoperability issues but is unfortunately not spelled out in the tables L.2 and L.3

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 98 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:07 AM
 C/ L
 SC L.

May 2005	IEEE P802.11REV-am	n Draft 1.0 Comment	S -	doc: II	EEE 802.11-05/0482r0
C/ L SC L. P0 L0 Mike, Moreton	MyBallot # 231	C/ L SC L.1 Bagby, David	P 0	L 0	MyBallot # 111
Comment TypeTRComment StatusXThe title and introduction to this annex are incorrect. It does not function or portal - it describes the 802.1H selective translation. 802.1H translation function there is no need for it to do so, and 8 may also take place in STAs.	While a portal may include ar	Comment Type TR missing word û shor SuggestedRemedy correct	Comment Status X Ild be ôàportal integration of the V	VLANàö	
SuggestedRemedy Replace all references to integration and portal in this annex wit (ISO/IECTR11802-5:1997) translation function"	h "IEEE Std. 802.1H-1997	Proposed Response	Response Status O		
Proposed Response Response Status O		C/ L SC L.1 Karcz, Kevin	P 0	LO	MyBallot # 269
C/L SC L. P0 L0 Engwer, Darwin Engwer, Darwin Comment Status X Comment Type TR Comment Status X After the combination of the base standard, the subsequent ammindividual changes, there remain unresolved inconsistencies being other clauses. This applies to this clause and all subclauses the SuggestedRemedy SuggestedRemedy Resolve the inconsistencies.	tween the text in this clause a	should be	Comment Status X om that includes a portal integration that includes a portal integration of <i>Response Status</i> O		
Proposed Response Response Status O		C/ L SC L.2 Mike, Moreton	P 0	L 0	MyBallot # 232
C/ L SC L.; clause L.1; page 947 P0 L0 Hillman, Garth Comment Type E Comment Status X typo SuggestedRemedy	MyBallot # 346	implementations. If document to select an infringement of T SuggestedRemedy	Comment Status X not specific to 802.11 - they are get the changes are left in this docum for details of 802.1H - 802.1H itsel Gma's PAR.	nent readers	will not know which
of of -> of Proposed Response Response Status O		Proposed Response	Response Status 0		

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 Page 99 of 112 5/18/2005 11:29:08 AM C/ L SC L.2 SORT ORDER: Clause, Subclause, page, line

IEEE P802.11REV-am Draft 1.0 Comments -

C/ L SC L.2 Bagby, David	P 0	LO	MyBallot # 112	C/ L SC L.3 Mike, Moreton	P 0	L 0	MyBallot # 233
SuggestedRemedy	Comment Status X ting historically but not useful t	to the conte	nt of the annex		Comment Status X specific information in this clause and so should be in that documen		ly an example of how to
remove footnote				,	nd forward it as a liaison to 802.1		
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ L SC L.2 Chaplin, Clint	P0 Comment Status X	LO	MyBallot # 413	C/ M SC M. Black, Simon	PO	L 0	MyBallot # 362
WLAN system with ar 802.1H-1997 (ISO/IE	at any WLAN system that login Ethernet V2.0/IEEE 802.3 LA C TR11802-5:1997), with the 2 the Integration Function" No	N use the p entry Select	rocedures defined in IEEE Stc tive Translation Table shown	provision of connect	Comment Status X is that this is informative text. In t tivity between MUs is not a secon g 'LAN'. I read this as non-IEEE8 s so.	ndary funct	ion. Also in this annex care is
SuggestedRemedy				SuggestedRemedy			
Delete one of the peri	iods.				for the first point. For the second		
Proposed Response	Response Status O				ences of LAN and clarifying (by p N). Sometimes LAN is used, othe		
				Proposed Response	Response Status O		
C/ L SC L.3 Chaplin, Clint Comment Type E	P 0 Comment Status X	L 0	MyBallot # 414	C/ M SC M. Bagby, David	P 0	L 0	MyBallot # 121
example" Do we re	encapsulation example, and T ally want three periods (or an e			Comment Type ER Edit 5: System Cont	Comment Status X	inge term ir	n figures>
SuggestedRemedy Use a single period.				SuggestedRemedy change as suggeste		-	-
Proposed Response	Response Status O			Proposed Response	Response Status O		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 100 of 112

 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/ M
 SC M.

Submission

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ M Turner, S	SC M. andra	P 0	LO	MyBallot # 617	C/ M Engwer, D	SC M. Darwin	P 0	LO	MyBallot # 490
Comment	Type E	Comment Status X tax notes are missing			Comment	Type ER	Comment Status X vrong on figure M3		
00	<i>dRemedy</i> le 05/120r9 Diagr	ram Syntax notes.			Suggeste Repa		om the source document (11-05-	0120-09)	
Proposed	Response	Response Status O			Proposed	Response	Response Status O		
C/ M Myles, An	SC M. drew	P 0	L 0	MyBallot # 454	C/ M Bagby, Da	SC M. avid	P 0	LO	MyBallot # 117
speci	annex provides ve fication language	Comment Status X ery limited value given the larg	ge number c	of new terms and the semi-forr	are al	: The core IEEE ostract (and can	Comment Status X 802.11 conceptual definitions th sometimes also cause some co stated goal of flexibility and and	nfusion), I	but they are crafted to do so
00	<i>dRemedy</i> ove entire annex					•	dard in a wide variety of ways.		
	Response	Response Status O			Suggeste Chan	<i>dRemedy</i> ge as suggested	ł		
C/ M	SC M.	P 0	L 0	MyBallot # 524	Proposed	Response	Response Status O		
Engwer, [Darwin				С/ М	SC M.	PO	LO	MyBallot # 119
Comment		Comment Status X			Bagby, Da			-0	110
indivi	dual changes, the	ere remain unresolved incons	stencies be	mendments and more focused tween the text in this clause a	Comment	Type ER	Comment Status X		
Suggeste	dRemedy	plies to this clause and all su	bclauses the	ereof.	LAN a	access 1) includ	unctions of the WLAN System ca es MU validation 2) includes mo al data movement function callec	ving data	(between the MUs and the LA
	lve the inconsiste				Suggeste	dRemedy			
Proposed	Response	Response Status O				ge as suggested roken spread sh	d for wording - replacve formattin leet.	g that had	d to be lost to paste edits into
					Proposed	Response	Response Status 0		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 101 of 112

 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/ M
 SC M.

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ M SC M. Bagby, David	P 0	LO	MyBallot # 120	CI M SC M. P0 L0 MyBallot # Bagby, David	122
	Comment Status X g problem: Corrections, Clarific	cations & Enh	nancments P802.11ma/D1.0	Comment Type ER Comment Status X Section M needs a spell check = example ôextendesö and ôEnhancmentsö û s correct as necessary.	spell check &
SuggestedRemedy Correct				SuggestedRemedy run spell check & correct errors	
Proposed Response	Response Status O			Proposed Response Response Status O	
C/ M SC M. Engwer, Darwin Comment Type TR	P 0 Comment Status X	LO	MyBallot # 492	C/ M SC M. P0 L0 MyBallot # Mike, Moreton	234
		ox Minago fo	otnotes from source docum	Comment Type TR Comment Status X	
11-05-0120-09 were effective communica SuggestedRemedy	11REV-m-aD1.0 draft the Ann omitted. These notes need to tion of the diagrams and the m	be included l naterial within	because they are crucial to to the reader.	While I appreciate a lot of hard work went into this annex, I don't really understa seems to be saying "For those of you who didn't understand section 5, how about whole new set of terminology and explain it again." and all that's likely to do is to confusion.	out we invent
11-05-0120-09 were effective communica SuggestedRemedy Add the missing footi syntax to the reader.	omitted. These notes need to tion of the diagrams and the m notes, or add descriptive in-line	be included l naterial within	because they are crucial to to the reader.	seems to be saying "For those of you who didn't understand section 5 , how about the section 5 , how about the section be able to be set of terminology and explain it again." and all that's likely to do is t	out we invent o increase th
11-05-0120-09 were effective communical SuggestedRemedy Add the missing footi syntax to the reader. Proposed Response	omitted. These notes need to tion of the diagrams and the m notes, or add descriptive in-line	be included l naterial within	because they are crucial to to the reader.	seems to be saying "For those of you who didn't understand section 5, how about the new set of terminology and explain it again." and all that's likely to do is the confusion. SuggestedRemedy If there are valuable new concepts in this annex then incorporate them into clau	out we invent o increase th
11-05-0120-09 were effective communical SuggestedRemedy Add the missing footu syntax to the reader. Proposed Response C/ M SC M. Chaplin, Clint Comment Type E	omitted. These notes need to tion of the diagrams and the m notes, or add descriptive in-line <i>Response Status</i> O <i>P</i> 0 <i>Comment Status</i> X	be included I naterial within he text to expla	because they are crucial to to the reader. ain/ introduce the UML diag	 seems to be saying "For those of you who didn't understand section 5, how about the new set of terminology and explain it again." and all that's likely to do is the confusion. SuggestedRemedy If there are valuable new concepts in this annex then incorporate them into claut the rest of this annex. 	out we invent o increase th use 5, and de
11-05-0120-09 were effective communicat SuggestedRemedy Add the missing footi syntax to the reader. Proposed Response C/ M SC M. Chaplin, Clint Comment Type E This annex mixes the SuggestedRemedy	omitted. These notes need to tion of the diagrams and the m notes, or add descriptive in-line <i>Response Status</i> O <i>P</i> 0 <i>Comment Status</i> X e use of "ACM STA" and "ACM	be included I naterial within he text to expla	because they are crucial to to the reader. ain/ introduce the UML diag	seems to be saying "For those of you who didn't understand section 5, how abo whole new set of terminology and explain it again." and all that's likely to do is t confusion. SuggestedRemedy If there are valuable new concepts in this annex then incorporate them into clau the rest of this annex. Proposed Response Response Status O C/ M SC M. PO LO MyBallot #	but we invent o increase th use 5, and de
11-05-0120-09 were effective communicat SuggestedRemedy Add the missing footi syntax to the reader. Proposed Response CI M SC M. Chaplin, Clint Comment Type E This annex mixes the SuggestedRemedy	omitted. These notes need to tion of the diagrams and the m notes, or add descriptive in-line <i>Response Status</i> O <i>P</i> 0 <i>Comment Status</i> X	be included I naterial within he text to expla	because they are crucial to to the reader. ain/ introduce the UML diag	seems to be saying "For those of you who didn't understand section 5, how abo whole new set of terminology and explain it again." and all that's likely to do is t confusion. SuggestedRemedy If there are valuable new concepts in this annex then incorporate them into clau the rest of this annex. Proposed Response Response Status O C/ M SC M. P0 L0 MyBallot # Bagby, David Comment Type ER Comment Status X	but we invent o increase th use 5, and de

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 102 of 112

 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/ M
 SC M.

May 2005		IEEE P802.11REV-a	m Draft 1.0 Comme	nts -	doc: IEEE 802.11-05/0482r0			
C/ M SC M. Newton, Paul	P 0	LO	MyBallot # 598	C/ M SC M. Oakes, Ivan		P 0	LO	MyBallot # 94
	Comment Status X 20 the diagrams referenced i ogy giving a clearer understa			Comment Type TI This section does of here. It also re	not add clarity.			ok on 802.11, it is better left o⊨ acy.
SuggestedRemedy Add the footnotes from	submission 11-05-0120 to ar	nnex M.		SuggestedRemedy The definition in 3	3.2 is sufficient to	define an AP, rer	move the ne	w Annex M.
Proposed Response	Response Status O			Proposed Response	Respon	se Status O		
C/ M SC M. Engwer, Darwin	P 0	L 0	MyBallot # 491	C/ M SC M. Bagby, David		P 0	L 0	MyBallot # 118
Comment Type ER Annex M makes referen annotation in Annex E.	Comment Status X ace to some terms from 802.1	11F, this req	uires a corresponding	Comment Type TI Edit 2: <just befo<br="">zero or more port</just>	ore figure M2> Ar		LAN system	contains one or more APs and
SuggestedRemedy Add a reference to 802.	11F in Annex E.			SuggestedRemedy Change as sugge	ested			
Proposed Response	Response Status O			Proposed Response	Respon	se Status O		
C/ M SC M. Myles, Andrew	P 0	LO	MyBallot # 136	C/ M SC M. p Hillman, Garth	page 949	P 0	LO	MyBallot # 339
Comment Type TR This annex provides ver specification language SuggestedRemedy	Comment Status X ry limited value given the larg	ge number o	f new terms and the semi-forr	SuggestedRemedy	ommend that a fir			hen go back to the beginning. briefly' describe how and why
Remove entire annex Proposed Response	Response Status O				ganized as it is (A and then proce	i.e., a tiny bit of hi	istory) and su	uggest that a good place to sta

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 103 of 112

 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/ M
 SC M. page 94!

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ M SC M.1 Bagby, David	P 0	L 0	MyBallot # 113	C/ M SC M.2 Yang, Lily	P 0	L 0	MyBallot # 469
definitions being abst SuggestedRemedy	Comment Status X I suspect the phrase ôabut they ract and not to the definitions b he ambiguity of reference. Response Status 0				Comment Status X le STAs operate in infrastructure cture mobile STAs operate in infr ext.		
AP functions and com more precise if the firs SuggestedRemedy Change to: At times the term to the AP function	P0 Comment Status X ne confusion surrounding the te nmon implementations of AP do st use of AP is surrounded by o here is some confusion surroun	evices." I th quotes. nding the te	ink the sentence would be m "AP" and the relation of tha	Proposed Response C/ M SC M.2 Oakes, Ivan Comment Type TR The use of "mobile" SuggestedRemedy Remove the word "r Proposed Response	Response Status O PO Comment Status X just adds confusion nobile" from within M.2 and refer Response Status O	LO ences to it	<i>MyBallot #</i> 95 e.g. paragraph after c) in m.2.
Proposed Response CI M SC M.2 Bagby, David Comment Type TR ôThe connection lines lines? SuggestedRemedy	Response Status O P 0 Comment Status X s in a use case diagramô û wha	L 0 atÆs a conr	<i>MyBallot</i> # 115	C/ M SC M.2 Myles, Andrew Comment Type E "I.e." should be "i.e" SuggestedRemedy Correct		LO	MyBallot # 450
change language or la	abel the lines or ?			Proposed Response	Response Status O		
Proposed Response	Response Status O						

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 Page 104 of 112 5/18/2005 11:29:08 AM C/ M

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/M	SC M.2	P 0	L 0	MyBallot # 116	C/M	SC M.2	P 0	L 0	MyBallot # 470
Bagby, Da	VID				Yang, Lily	,			
Comment	Type TR	Comment Status X			Comment	Type TR	Comment Status X		
l find t people		eople symbols distracting as no	ne of the e	entities shown are commonly		e M2: So WLAN Correct?	system is not the same as ES	S. WLAN s	ystem might be a superset of
Suggested	dRemedy				Suggeste	dRemedy			
just us	se the terms (ST	A, DS) with out the people outli	ne in the p	picture.			n of the terminilogies used in A	nnex M in r	elation of the terminologies us
Proposed	Response	Response Status 0				use 5 would be	I		
					Proposed	Response	Response Status O		
C/ M	SC M.2	P 0	L 0	MyBallot # 114					
Bagby, Da		10	20		C/ M	SC M.2	P 0	LO	MyBallot # 132
					Myles, An	drew			
Comment	51	Comment Status X			Comment	Type E	Comment Status X		
		he term Ad-hic is confusing. Th n IBSS û because an infrastruc			"l.e." :	should be "i.e"			
witnes	s the sale of sm	nall ôtravel apö devices. It woul	d be bette	r not to attempt to redefine ad-	Suggeste	dRomody			
hoc fro	om itÆs english	meaning into the equivalent of	ônot infras	structureö.	Corre				
Suggestee	dRemedy						Deenenee Statue		
Rewrit	te as needed to	avoid this problem.			Proposed	Response	Response Status O		
Proposed	Response	Response Status 0							
					C/ M	SC M.2	P 0	L 0	MyBallot # 96
C/ M	SC M.2	PO	LO	MyBallot # 92	Oakes, Iva	an			
Oakes, Iva		ΡŪ	20	Wyball0l # 92	Comment	Type TR	Comment Status X		
,					11e u	ses the term "N	on-AP STA" rather than MU, int	troduction of	of the term "MU" is just going
Comment	51	Comment Status X			confu	se.			
		WDS mode, and although not on A4 frame fromat. It could be a			Suggeste	dRemedy			
		o association, no security), a in			Repla	ace MU by "Non	-AP STA" in Annex M.		
	isign WEP or RS				Proposed	Response	Response Status 0		
Suggested	dRemedy								
Add W	/DS modes to lis	st and describe.							
Proposed	Response	Response Status 0							

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 105 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:08 AM
 C/ M
 SC

SC M.2

May 2005 IEEE P802.11RE\	-am Draft 1.0 Comments - doc: IEEE 802.11-05/0482r0
C/ M SC M.2 P 0 L 0 MyBallot # 98 Oakes, Ivan	C/ M SC M.3 P 0 L 0 MyBallot # 418 Chaplin, Clint <td< td=""></td<>
Comment TypeTComment Status XFigure M.4, The definition of a protal is the interworkign unit between the 802.11 and non- 802.11 LAN segments. As The DS may or may not be 802.11, it may not even be a 802 network, then I think the position of the "Portal" in this figure is inaccurate, it is more accurate place it between the AP and DS. Further the defineition of an AP "An entity that has STA functionality and provides access to the distribution services" (3.2), means the AP logically contains both the STA and portal components and it not a connector between the two.	Comment Type E Comment Status X The sentence "Move data (between the MUs and the AP)" does not need the parenthesis. SuggestedRemedy Get rid of the parenthesis. Proposed Response Response Status O
SuggestedRemedy Remove Annex M as it is inaccurate.	
Proposed Response Response Status O	C/ M SC M.4 P 0 L 0 MyBallot # 135 Myles, Andrew
CI M SC M.2 P0 L0 MyBallot # 97	Comment Type TR Comment Status X The text refers to IAPP-ADD and IAPP-MOVE indications
Oakes, Ivan Comment Type TR Comment Status X	However, these concepts are from 802.11F, which has very poor acceptance and may never become a non-trial recommended practice
Comment Type TR Comment Status X There is no "Access Control Mode" just a STA that accepts association.	SuggestedRemedy
SuggestedRemedy Remove use of Access control mode STAs and replace it by text that says "STAs that accept association".	Remove references to 802.11F conceptsProposed ResponseResponse StatusO
Proposed Response Response Status O	C/ M SC M.4 P 0 L 0 MyBallot # 452 Myles, Andrew
C/ M SC M.2 P 0 L 0 MyBallot # 416 Chaplin, Clint <td< td=""><td>Comment Type E Comment Status X "notyfing" should be "notifying"</td></td<>	Comment Type E Comment Status X "notyfing" should be "notifying"
Comment Type TR Comment Status X I forsee problems with this definition: "The mobile STAs are the STA entities that are ordinarily	SuggestedRemedy Correct
moving around, but may also be in a fixed location. The mobile adjective prefix often helps in visualizing the type of STA under discussion." There are already APs that move, and with active meshing, the mobility of APs is going to increase.	Proposed Response Response Status O
SuggestedRemedy 0	
Proposed Response Response Status O	

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 106 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:08 AM
 C/ M
 SC

SC M.4

Submission

-							
C/ M SC M.4 Myles, Andrew	P 0	L 0	MyBallot # 453	C/ M SC M.4 Reuss, Edward	P 0	L 0	MyBallot # 609
Comment Type TR The text refers to IAPP	Comment Status X P-ADD and IAPP-MOVE indicat	ions		Comment Type E Multiple spelling errors	Comment Status X		
However, these conce become a non-trial rec	pts are from 802.11F, which ha	s very poc	r acceptance and may never	SuggestedRemedy Change "extendes" to	"extends" and "notyfing" to no	tifying".	
SuggestedRemedy Remove references to	802.11F concepts			Proposed Response	Response Status O		
Proposed Response	Response Status O			C/ M SC M.4 Myles, Andrew	P 0	L 0	MyBallot # 134
C/ M SC M.4 Turner, Sandra	P 0	L 0	MyBallot # 618	Comment Type E "notyfing" should be "n	Comment Status X otifying"		
Comment Type E The word "extends" is	Comment Status X spelled incorrectly in M.4 a1			SuggestedRemedy Correct			
SuggestedRemedy Replace "extendes" wi	ith "extends"			Proposed Response	Response Status O		
Proposed Response	Response Status O			C/ M SC M.4 Myles, Andrew	P 0	L 0	MyBallot # 133
C/ M SC M.4 Myles, Andrew	P 0	L 0	MyBallot # 451	<i>Comment Type</i> E "extendes" should be "	Comment Status X extends"		
Comment Type E "extendes" should be "	Comment Status X			SuggestedRemedy Correct			
SuggestedRemedy Correct				Proposed Response	Response Status O		
Proposed Response	Response Status 0						

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 107 of 112

 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/ M
 SC M.4

May 2005

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ M SC M.4 PO LO MyBallot # 611 C/ M				
Reuss, Edward Reuse	SC M.6 s, Edward	P 0	L 0	MyBallot # 612
	<i>nent Type</i> E oor syntax - "to/fron	Comment Status X		
Change "adjustments based on notification from the APs of changes" to "adjustments, based C on notification from the APs of changes"	estedRemedy hange "to/from" to "			
Proposed Response Response Status O	osed Response	Response Status O		
C/ M SC M.4 P 0 L 0 MyBallot # 610 C/ M Reuss, Edward Chaple Chaple Chaple	SC M.7 lin, Clint	P 0	L 0	MyBallot # 419
Comment Type E Comment Status X TI Poor syntax - "to/ from" an		tly via another portal onto its		ortal onto an integrated LAN, rent," I am having problems
SuggestedRemedy Change "to/ from" to "to and from".	estedRemedy	·		
C C		ansiting from a DS through a other portal onto its DS is trar		integrated LAN and then
Prope	osed Response	Response Status O		
C/ M SC M.6 PO LO MyBallot # 586	20.11			
C/ N Comment Type T Comment Status X Myles	SC N. , Andrew	P 0	L 0	MyBallot # 140
M.6 or another section must address Broadcast/Multicast traffic as well as unicast traffic. L2/L protocols such as ARP, DHCP are critical to operations in an IP network. Transmission of	nent Type TR	Comment Status X		
SuggestedRemedy Sugge	estedRemedy			
Expand the description on portal and DS functions to address transmission of R Broadcast/Multicast traffic.	emove entire anne»	x		
Proposed Response Response Status O	osed Response	Response Status O		

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 Page 108 of 112 5/18/2005 11:29:08 AM C/ N SORT ORDER: Clause, Subclause, page, line

May	2005
-----	------

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ N SC N. Mike, Moreton	P 0	L 0	MyBallot # 242	C/ N SC N. Myles, Andrew	P 0	L 0	MyBallot # 458
primitives and the 802 SuggestedRemedy	Comment Status X fectly well be described in terr .11 MLME primitives. Why p	ick an incom	patible API for no reason?	Comment Type TR There is little obvious SuggestedRemedy Remove entire anne			
Change the text in this Proposed Response	annex to re-use the indicate Response Status O	d interfaces,	or delete it entirely.	Proposed Response	Response Status O		
individual changes, the	ere remain unresolved incons oplies to this clause and all su	sistencies be	<i>MyBallot</i> # 525	SuggestedRemedy	P0 Comment Status X s SAP fits into the architecture. chitecture diagram showing whe Response Status 0	LO	MyBallot # 2 <u>36</u>
Proposed Response	Response Status O			C/ N SC N.1 Oakes, Ivan	P 0	L 0	MyBallot # 100
C/ N SC N. P0 L0 MyBallot # 235 Mike, Moreton Comment Type TR Comment Status X This annex should be part of section 6 (just like the interface to LLC) SuggestedRemedy See comment Proposed Response Response Status O	Comment Type TR Comment Status X The definition of an AP (3.2) "An entity that has STA functionality and provides access to the distribution services" means an AP contrains the portal and the integration service. The AP does not interface to the portal. A portal is a SAP between the MAC and the Integration Service, it is not a module or unit. There is no AP-SAP, there is a MAC-SAP. Finally, the interface to the DS may be the SAP to some other MAC, this is not in scope, nor should it be is the job of the Integration Service, an "interworking unit" in classic protocol terminology, is to map and convert the MAC-SAP to the DS-SAP, how it does this is also out of scope except a guidelines (e.g. Annex L). e.g. what if the DS is a GPRS network, there is no STA-NOTIFY.request in GPRS. The 802.11 spec should define the MAC-SAP no the DS-SAP, thus this Annex is not required. SuggestedRemedy Remove Annex N.						
				Proposed Response	Response Status O		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 109 of 112

 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

May 2005			IEEE P802.11REV-ar	n Draft 1.0 Comments	-	doc:	IEEE 802.11-05/0482r0
C/ N SC N.1 Mike, Moreton	P 0	LO	MyBallot # 237	C/ N SC N.2.1.1 Mike, Moreton	P 0	LO	MyBallot # 238
SuggestedRemedy	Comment Status X a very conversational style. ore consistent with the style u <i>Response Status</i> O	sed in othe	r sections of the document.	primitive) or to the DS	Comment Status X ved MSDU can be routed to L (via the DS-UNITDATA.requ or the other is inconsistent. indication. Response Status O	· ·	
C/ N SC N.1 Reuss, Edward Comment Type E Poor syntax - "in/out"	P0 Comment Status X	LO	MyBallot # 613	C/ N SC N.2.1.1. Mike, Moreton Comment Type TR		LO	MyBallot # 239
SuggestedRemedy Change "in/out" to "in o				Something of type "80 accompany an MSDU			definition) the parameters that
Proposed Response	Response Status O			SuggestedRemedy List all the parameters			
C/ N SC N.1 Reuss, Edward	P 0	L 0	MyBallot # 614	Proposed Response	Response Status O		
Comment Type E Poor syntax - "and/or"	Comment Status X			C/ N SC N.2.1.1. Myles, Andrew	2 P 0	L 0	MyBallot # 455
SuggestedRemedy Change "and/or" to "and	J".			Comment Type TR It is not clear why the	Comment Status X Source Type is useful		
Proposed Response	Response Status O			SuggestedRemedy Explain function of So	urce Type		
				Proposed Response	Response Status O		

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 Page 110 of 112 5/18/2005 11:29:08 AM C/ N SORT ORDER: Clause, Subclause, page, line SC N.2.1.1.2

IEEE P802.11REV-am Draft 1.0 Comments -

doc: IEEE 802.11-05/0482r0

C/ N SC N.2.1.1.2 Myles, Andrew	P 0	LO	MyBallot # 137	C/ N SC N.2.1.2. Myles, Andrew	2 P 0	L 0	MyBallot # 456
Comment Type TR It is not clear why the So	Comment Status X			Comment Type TR It is not clear why the	Comment Status X Destination Type is useful		
SuggestedRemedy Explain function of Sour	се Туре			SuggestedRemedy Explain function of De	estination Type		
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ N SC N.2.1.1.2 Mike, Moreton	P 0	LO	MyBallot # 240	C/ N SC N.2.1.2. Mike, Moreton	2 P 0	L 0	MyBallot # 241
supported by the lack of this sort of information s SuggestedRemedy	any described use of the "E hould be provided by a man	DestinationTy	loes for a portal. This view is ype" parameter. In any case, erface, not with every MSDU.	Comment Type TR The DS tells the recip know this! SuggestedRemedy Delete the "Destination	Comment Status X ient whether it's an AP or Portal nType" parameter.	??? Sure	ly the recipient must already
Delete the "SourceType Proposed Response	^r parameter. <i>Response Status</i> O			Proposed Response	Response Status O		
C/ N SC N.2.1.2.2	P 0	LO	MyBallot # 138	C/ N SC N.2.2.1. Myles, Andrew	2 P 0	L 0	MyBallot # 139
Myles, Andrew <i>Comment Type</i> TR It is not clear why the De <i>SuggestedRemedy</i> Explain function of Dest				Comment Type TR If the Enumeration is SuggestedRemedy Add another parameter Proposed Response	Comment Status X MOVE then it appears a "move t er Response Status O	to à" para	meter is missing
Proposed Response	Response Status O			r roposed response			

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 111 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed
 U/unsatisfied Z/withdrawn
 5/18/2005 11:29:09 AM
 Page 111 of 112

 SORT ORDER:
 Clause, Subclause, page, line
 SC N.2.2.1.2
 SC N.2.2.1.2

C/ N	SC N.2.2.1.2	P 0	L 0	MyBallot # 457	ŀ
Myles, An	ndrew				
Comment If the		Comment Status X DVE then it appears a "mov	e to à" parar	neter is missing	
00	edRemedy another parameter				
Proposed	l Response	Response Status O			
<i>Cl</i> O Aboba, Be	SC O. ernard	P 0	L 0	MyBallot # 20	
Comment Add A		Comment Status X P Method Requirements for	WLAN".		
00	edRemedy Appendix O contair	ning material from RFC 4017	7.		

Proposed Response Response Status **O**

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Page 112 of 112

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 5/18/2005 11:29:09 AM
 C/ 0
 SC 0.