C/ 03	SC 3	3		P 2 Cisco Syst	L17	# 144011	C/ 03 Roy Rich	SC	3.168a		P 2	L 26	# 125010
Comment 1 The de both Ba measui Suggestedi Provide exchan Proposed F Counte to obta	Funan Fype finition aseline rement) Remedy a succ ge Response r - Suge in an es	TR of timing a standard). // cinct clear se gest chan xternal tim	Comment advertisemer and TGv the definition of <i>Response</i> ge to "Exterr e (e.g. UT0)	Status X status X at frame is to re are multip what time is Status O nal Time Adv from STA tim	erns o vague.Is it TSF? le uses of timing (e being used and the ertisement" since it ne (TSF)	What is "timing"? In .g. timing purpose of that advertises the offset	Koy, Kich Comment The c STAs any w STAs term/d Suggeste Remo Proposed Count motio	Type concept WAVE way with to com concept dReme ove the Respon- ter - Thinn in 11-	TR of a WBSS capable n o other ST/ municate o t WBSS or dy definition o nse is commer -08-1024-0	Comment Si S is unnecessal either depends As. As stated, th butside the com ly confuses the of WBSS. Response St at is considered 7-000p-no-wbs	atus X y. The add on nor doe nis amendn ext of any I matter, no atus O "overcome s-no-beaco	itional functionality is it require any con nent specifies fund BSS, and the intro t to mention the in t to mention the in by events" (OBE) n-comment-resolu	y required to make ncept of associating in ctionality that allows duction of the nplementer.
Roy, Richar Comment 7 The pro succes ONDER by the s of seve	rd Fype poosed sfully jo MANDE SME. L eral sucl Remedy re the si	TR modificati bin a BSS, BEACON f Jse of an h frames v y uggested	Comment ion to the de a STA musi rame is not t ONDEMANE with the appr changes to c	SRA Status X finition of a E treceive mo ransmitted p DBEACON to opriate timin	BSS is technically p re than one valid be veriodically, rather o o create a BSS wou g for other STAs to eaving the definition	# 125008 roblematic. To bacon frame, and the nly when commanded Id require transmission successfully join.	this d C/ 03 Roy, Rich Comment WAVI additii and c norma havin	SC ard <i>Type</i> E is not onal sp ontrol fi al 802.1 g to joir	3.168c TR a separate ecifications rames) out 1 functions a a BSS.	Updated P802.1 Comment Si e "mode" of ope s that allow STA side the contex ality, WAVE cap	1p draft. P2 SRA atus X ration of a s to comm c of any BS bable STAs	L 36 STA. The WAVE unicate (i.e., send S. For example, i can send data fra	# 125023 amendment provides data, management, n addition to all the ames without first
Proposed F Counte motion this doo	Respons er - This in 11-0 cument	se comment 8-1024-07 and the u	Response t is considere 7-000p-no-wh pdated P802	Status O ed "overcom oss-no-beace 2.11p draft.	e by events" (OBE) on-comment-resolu	with the passing of the tion.doc. Please see # 125041	Suggeste Repla STA o the co Proposed	dReme ace the capable ontext o Responter - Thi	dy definition c of transmi f a BSS. N nse is commer	of WAVE mode itting and receiv WC STAs have <i>Response St</i>	a definition ing data, c dot11WAV a <i>tus</i> 0	of "WAVE capabl ontrol, and manag ECapable set to tr	e STA (WC STA): a ement frames outside rue."
Stephensor Comment 7 The de Suggested	n, Dave Type finitions Remedy	TR for on-de	Comment emand beacc	Cisco Status X on and wave	beacon are the sar	ne. This is confusing.	motio this d	n in 11- ocumer	to commer 08-1024-0 nt and the t	7-000p-no-wbs updated P802.1	s-no-beaco 1p draft.	n-comment-resolu	tion.doc. Please see
Delete of the a	on of th amendn	ne definitio nent.	ons and use	the remainin	g definition consiste	ently throughout the text							

Proposed Response Response Status **0**

Counter - This comment is considered "overcome by events" (OBE) with the passing of the motion in 11-08-1024-07-000p-no-wbss-no-beacon-comment-resolution.doc. Please see this document and the updated P802.11p draft.

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

C/ 03 SC 3.168c Page 1 of 34 17/07/2009 11:35:45

C/ 03	SC 3.168d	P 2	L 42	# 125028
Roy, Richa	ard	SRA		

Comment Type TR Comment Status X

Beacon management frames are being used for a purpose to which they are ill-suited. The beacon frame should not be overloaded with additional functionality that is orthogonal to its basic purpose, that of initiating and maintaining BSSes. The only feature of a beacon frame that is potentially useful for STAs communicating outside the context of a BSS is the accurate Timestamp in the beacon frame itself. As the Timestamp is used for optional synchronization, a Timing Synchronization management frame is the appropriate management frame to include in the amendment. Allowing this frame to optionally carry the WIE creates all the func tionality necessary to allow WC STAs to operate successfully.

SuggestedRemedy

Remove the ONDEMANDBEACON frame and replace it with a Timing Synchronization management frame that has the accurate Timestamp required.

Proposed Response Response Status O

Counter - This comment is considered "overcome by events" (OBE) with the passing of the motion in 11-08-1024-07-000p-no-wbss-no-beacon-comment-resolution.doc. Please see this document and the updated P802.11p draft.

CI 03	SC 3.168e	P 2	L 49	# 125033
Roy, Richard		SRA		

Comment Type TR Comment Status X

Beacon management frames are being used for a purpose to which they are ill-suited. The beacon frame should not be overloaded with additional functionality that is orthogonal to its basic purpose, that of initiating and maintaining BSSes, and communication by WC STAs outside the context of a BSS is exactly that, communication without a BSS. A beacon frame is not required.

SuggestedRemedy

Remove the definition of WAVE beacon and all instances of the term from the document. This can be easily accomplished since the functionality (that of carrying an optional information element the contents of which are beyond the scope of 802.11) implemented by the use of this frame is beyond the scope of 802.11. This simple functionality (optionally carrying an IE) is better left to a specifically designed action frame and the proposed Timing Synchronization management frame.

Proposed Response Response Status **O**

Counter - This comment is considered "overcome by events" (OBE) with the passing of the motion in 11-08-1024-07-000p-no-wbss-no-beacon-comment-resolution.doc. Please see this document and the updated P802.11p draft.

CI 04	SC 4	P 3	L 5	#	125045
Roy, Richard		SRA			

Comment Type **TR** Comment Status **X**

The modifications to 802.11 being proposed to make the standard applicable to rapidly varying RF environments have application to a large number of systems, not just those anticipated by intelligent transport systems. The number of units that successfully implement and use the "WAVE capabilities" is likely to far exceed the number of vehicles on the planet. Use of the term "vehicles" to describe the features of the new functionality is limiting. Furthermore, just because the PAR has Vehicles in the title does not mean that the term must be used in the amendment.

SuggestedRemedy

Replace "vehicular" with "varying" in the acronym so it descriptively reads: "wireless access in varying environments".

Proposed Response Response Status **O**

Declined - TGp voted to decline this comment. Anticipate further WG feedback.

C/ 04	SC 4	P 3	L6	#	125046
Roy, Richard		SRA			

Comment Type TR Comment Status X

The information element being described is not just restricted to use by WC STAs. Calling it a WAVE information element is misleading.

SuggestedRemedy

Rename the WIE to HLIE (higher layer information element).

Proposed Response Response Status **O**

Counter - This comment is considered "overcome by events" (OBE) with the passing of the motion in 11-08-1024-07-000p-no-wbss-no-beacon-comment-resolution.doc. Please see this document and the updated P802.11p draft.

CI 04 SC 4

C/05 SC 5	P2	L 21	# 144014	C/ 05	SC 5.2.11	P2	L 45	# 144018
Bumiller, George	Research In M	otion		Ecclesine,	Peter	Cisco Syste	ems	
Comment Type ER	Comment Status X			Comment T	Type TR	Comment Status X		
The use and capabilitie other sections.	es of 802.11p should be cover	ed in Clause 5	and generall in the	The sc "STA ti	ope of this an ansmission of	nendment is restricted from 3. If data frames outside the con	65 GHz bands. The text of a BSS" is b	ne title of this subcla beyond the scope of
SuggestedRemedy				PAR, a frames	nd should be are sent "out	qualified by some language t side the context of a BSS" by	hat is within scope an enabling STA.	3. 802.11y Public Ac
Provide the user of the applications of the cap	 specification with sufficient in ability being standardized. 	formation to ur	nderstand the main	Suggested	Remedy		-	
Proposed Response	Response Status O			Rewrite	e this subclau	se using language that is clea	arly restricted to op	peration within the
Declined - The capabili covered in Claue 5.2.1 STAs that do not belon comments to remove to amendment. Clause 5 environments such as communication exchan milliseconds)." That's us to go. C/ 05 SC 5	ities of the communication me 1, principally the capability to a ng to a BSS. The task group h ext that discusses the applicat 2.2.11 notes the intended usage those involving mobile STAs w nges take place may be of very as far in the direction of usage P3	chanism define communicate c las previously i tions that have e as "rapidly vi where the intern y short-duration e as we think th L 38	ed in 802.11p are data frames between received, and accepted, motivated this arying communication val over which the n (e.g. measured in ne 802.11 WG would like # 125075	Proposed F Decline to oper has alr followir manag authen not with bearing the cor	Response ad - TGp disa ations condu- eady complie ng clarificatior ement or con tication, and in the excep o on them. To text of a BSS	Response Status O grees that the PAR restricts c cted in any given band (see 1 d with the suggested remedy. n: "NOTE-The state of dot110 trol frame transmissions, exce association as noted in Clause tion of the note, it is clear that Gp agrees that Public Action f S, and it is primarily for that rea	apabilities introduc 1-09-0020/r1). Th Also, this subcla DCBEnabled does ept with regard to s ept with regard to s ept 11.19". Since Pi the state of dot11 rames can be con ason that the scop	ced in the amendme erefore, TGp believe use now includes the not affect the validit scanning, ublic Action frames a OCBEnabled has no isidered to be outsid be of the MIB variabl
Adachi, Tomoko	Toshiba Corpo Comment Status X	oration		associa	ated with the	true is limited to data frames exception noted above).	(plus those mana	igement frames
"The delay in joining a MAC level authenticati	WAVE BSS is reduced compa on and association do not app	ared to an infra	structure BSS because BSS. Any services	C/ 05 Ecclesine,	SC 5.2.11 Peter	P 2	L 49	# 144020
or higher layers; STAs If a DS is not used, wh	in WAVE mode do not use a y is there an AP in WAVE BS	erred to the sta DS." S?	ition management entity	Comment T The sc	<i>Type</i> TR ope of this an	Comment Status X nendment is restricted from 3.	65 GHz bands. Th	ne requirement "A S

SuggestedRemedy

Reconsider the use of a DS. If a DS will not be used, delete the usage of an AP in WAVE BSS. If an AP is needed, use authentication/association process and add MAC layer security mechanism.

Proposed Response Response Status 0

Counter - This comment is considered "overcome by events" (OBE) with the passing of the motion in 11-08-1024-07-000p-no-wbss-no-beacon-comment-resolution.doc. Please see this document and the updated P802.11p draft.

C/ 05	SC 5.2.11	P 2	L 49	# 144020
Ecclesine	e. Peter			

The scope of this amendment is restricted from 3.65 GHz bands. The requirement "A STA will transmit a data frame outside the context of a BSS only if dot110CBEnabled is set to true." is beyond the scope of the PAR, and should be qualified by some statement that is within scope.

SuggestedRemedy

Rewrite this subclause using language that is clearly restricted to operation within the scope of the 802.11p PAR.

Proposed Response Response Status 0 Declined - See the resolution of CID #18

C/ 05 SC 5.2.11 Page 3 of 34 17/07/2009 11:35:52

C/ 05	SC 5.2.11	P 3	L 20	# 144031
Stephens	on, Dave	Cisco		
Comment The s incluc	<i>Type</i> ER entence beginn led in clause 11	Comment Status X ing "The BSSID field ." is a rather than clause 5.	normative behavior	which should be
Suggeste Move	dRemedy it.			
Proposed	Response	Response Status 0		
Declir sente reade sente	ned - Clause 11 nce in 5.2.11 is r. It does not us nce would not ir	.19 already has a normative explanatory, an informative se the normative "shall" as a nprove the amendment.	statement covering statement of fact fo clause 11.19 does.	g the BSSID field. The or the benefit of the Removing this
C/ 05	SC 5.2.11	P3	L 22	# 144034
Roy, Rich	ard	SRA		
Comment The a usefu	<i>Type</i> TR bility to exchang I capability in m	Comment Status X ge data frames (and all othe any 802.11 WLAN deploym	r frames for that me ents regardless of t	atter) is a potentially he state of other links

currently in use. To date, no valid technical reason for prohibitiing the use of this very generic capability in all conditions has been tendered. In fact, a recent poll of knowledgeable members of the WG concluded that such a capability could successfully coexist with all other legacy 802.11 link states (cf. BSS, IBSS links). As written, the material in this subclause intends to prohibit the general use of this very useful functionality. It should be rewritten to allow coexistence with current legacy link states.

SuggestedRemedy

Rewrite as suggested in 11-08-1375-03-000p-clause 5 changes.doc

Proposed Response Response Status **O**

Declined - The expansion requested in the comment has consistently been declined by TGp in D4.0 (March '08), D5.0 (November '08), and D6.0 (March '09). Neither the comment nor the referenced document provides relevant new information.

C/ 05 S	C 5.2.2.a	P 2	L 37	# 141009
Roy, Richard		SRA		
Commont Tun	тр	Commont Status V		

Comment Type **TR** Comment Status **X**

The rewrite of this subclause contains several confusing and misleading statements (see 1375r1).

SuggestedRemedy

As given in 11-08-1375-01-000p-clause 5 changes.doc

Proposed Response Response Status **O**

Counter - Some of the suggestions are accepted, some are accepted in principle, and others are declined. Specific recommendations regarding the comments on 5.2.2a (5.2.11) (5.2.11) are incorporated in submission 11-09-0043.

CI 05	SC 5.2.2.a	P 2	L 38	# 141010
Ecclesine, Peter		Cisco Systems		

Comment Type TR Comment Status X

The scope of this amendment is restricted to 5 GHz bands. The requirement "A STA will communicate outside the context of a BSS only if dot110CBEnabled is set to true." is beyond the scope of the PAR, and should be qualified by some statement that is within scope.

SuggestedRemedy

Rewrite this subclause using language that is clearly restricted to operation within the scope of the 802.11p PAR.

Proposed Response Response Status **O**

Declined - See doc: 11-09-0020 The primary objective of TGp as defined in the PAR is operation at high speeds and long ranges relative to conventional 802.11 usage and is totally independent of the frequency band used. The PAR identifies the need to support the 5 GHz bands and support for transportation applications but is not interpreted by Task Group p as being restricted to only 5 GHz.

C/ **05** SC **5.2.2.a**

	IEEE P802.11p	D7.0 Wireless	Access in V	Vehicular	Environments	(WAVE)	comments
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C/ 05 SC 5.2.2.a P2 L40 # 141012 Ecclesine Peter Cisco Systems Cisc	C/ 05 SC 5.2.6 P2 L41 # 144017				
Comment Type TR Comment Status X The scope of this amendment is restricted to 5 GHz bands. The title of this subclause "STA communication outside the context of a BSS" is beyond the scope of the PAR, and should be qualified by some language that is within scope. 802.11y Public Action frames are sent "outside the context of a BSS" SuggestedRemedy Rewrite this subclause using language that is clearly restricted to operation within the	Comment Type TR Comment Status X I cannot tell the difference between your 5.2.6 and the baseline 5.2.6 SuggestedRemedy Remove the instruction and accompanying text that suggests that 5.2.6 is changing from the baseline. Proposed Response Response Status O				
scope of the 802.11p PAR.Proposed ResponseResponse StatusODeclined - See doc: 11-09-0020 and response in CID 10.	Declined - In D6.0 the words "or to interoperate with other STAs when exchanging QoS data frames outside the context of a BSS" are added to the baseline. These appear in the standard underline format. So, the editing instructions are correct.				
C/ 05 SC 5.2.2a P3 L23-2 # 125088	C/ 05 SC 5.3.1 P3 L18 # 141020				
Stephenson, Dave Cisco	Commont Tupo TP Commont Status V				
The text states that, "a STA is in WAVE mode ." This sentence provides the technical definition of WAVE mode as it relates the mode to a MIB object, but uses informative language rather than normative.	The scope of this amendment is restricted to 5 GHz bands. The requirement "a) Authentication (BSS operation only)" is beyond the scope of the PAR, and should be qualified by some statement that is within scope. Same is true for the other changes to 5.3.1.				
SuggestedRemedy	SuggestedRemedy				
Change "is" to "shall be" (normative language).	Rewrite this subclause using language that is clearly restricted to operation within the				
Proposed Response Response Status O	Proposed Response Response Statue				
Counter - This comment is considered "overcome by events" (OBE) with the passing of the motion in 11-08-1024-07-000p-no-wbss-no-beacon-comment-resolution.doc. Please see this document and the updated P802.11p draft.	Declined - See doc: 11-09-0020 and response in CID 10.				
C/ 05 SC 52 22 P3 / 42-4 # 125094	C/ 05 SC 5.3.1 P3 L 27 # 144035				
Stephenson, Dave Cisco	Fischer, Matthew Broadcom				
Comment Type TR Comment Status X	Comment Type TR Comment Status X				
The text states, "WAVE mode allows communication outside the context of a BSS." However, the text (nowhere in the document as far as I can tell) provides a definition of	Your numbering appears to be incorrect. (WKF Note: Submittal shows Pg 5, Ln 22. Changed to Pg 3, In27)				
"outside the context of a BSS".	SuggestedRemedy				
SuggestedRemedy					
Provide a description of the purpose and type of information a STA will communicate outside the context of a BSS.	Declined - ***Withdrawn by M Fischer *** WKF: Note this comment appears to be from				
Proposed Response Response Status O	using the "Realine doc".				
Counter - Counter: the new clause 5.2.2a discusses the purpose of communication outside the context of a BSS, but does not discuss the type of information a STA will communicate.					

Cl	05
SC	5.3.1

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CI 05	SC 5.3.1	P3	L 34	# 144038
Roy, Richa	rd	SRA		

Comment Type TR Comment Status X

The ability to exchange data frames (and all other frames for that matter) is a potentially useful capability in many 802.11 WLAN deployments regardless of the state of other links currently in use. To date, no valid technical reason for prohibiting the use of this very generic capability in all conditions has been tendered. In fact, a recent poll of knowledgeable members of the WG concluded that such a capability could successfully coexist with all other legacy 802.11 link states (cf. BSS, IBSS links). As written, the material in this subclause intends to prohibit the general use of this very useful functionality. It should be rewritten to allowcoexistence with current legacy link states.

SuggestedRemedy

Remove these changes to 5.3.1.

Proposed Response	Response Status	0
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Declined - See CID 34

C/ 06	SC 6	P3	L 39	#	141023
Roy, Richard		SRA			

Comment Type TR Comment Status X

The MA-UNITDATA primitives are missing an ALP argument. One of the most important features for use in ITS applications (rapidly varying RF environments) is the ability to control tx power on a packet by packet basis. There is currently no way in the MAC/PHY standard to do this. Addition of an Access Layer Parameter argument to the UNITDATA primitive would provide for this in a standardized way. Currently, this is done in the 1609 standards and should be moved into 802.11, since that is where MAC/PHY parameters are set and controlled, so that it can be used by others developing other networking protocols to compliment WSMP (cf. 1609.3).

SuggestedRemedy

Add an ALP parameter to the UNIDATA primitives that allow setting of the tx power and datarate ona packet by packet basis.

Proposed Response Response Status **O**

Counter - After discussion and review of the changes for Clause 6 in Draft 5.0, Task Group p decided to remove all changes to Clause 6.

C/ 06	SC 6.1.1.2		P 3	L 34	# 144039
Roy, Ricl	nard		SRA		
~		~			

Comment Type **TR** Comment Status **X**

Material describing how the priority parameter in MAC service primitives is to be interpreted when transmitting data frames outside a BSS is missing.

SuggestedRemedy

Add text describing how the TID value is used is such cases including allowance for its use as a peer-to-peer STA Block Ack exchange identifier.

Proposed Response Response Status **O**

Declined - Consensus of the group is that this is not required. Related comments in other clauses were also declined, see CIDs

C/ 06	SC 6.2.1.1.2	P 4	L1	# 14	1028
Stephenson,	Dave	Cisco		-	

Comment Type TR Comment Status X

It would seem that BSSID will only be supplied if dot110CBEnabled is true. If this is so, then text should so state. Otherwise STAs pre-dating 802.11p amendment will be non-compliant.

SuggestedRemedy

Per comment.

Proposed Response Response Status **O**

Counter - After discussion and review of the changes for Clause 6 in Draft 5.0, Task Group p decided to remove all changes to Clause 6.

C/ 06	SC 6.2.1.1.2	P 4	L 29-3	# 125103
Stephenso	on, Dave	Cisco		-

Comment Type **TR** Comment Status **X**

The text adds BSSID to the MA-UNITDATA.request primitive. However, this is unnecessary since that lower MAC will know the BSSID after it joins the WAVE BSS. I suspect the BSSID has been added for the purposes of communication "outside the context of a BSS"; however since it is unclear to me what is meant by that or how it will be used, I have made this comment.

SuggestedRemedy

Delete the text.

Proposed Response Response Status **O**

Declined - TGp voted to decline this comment. Anticipate further WG feedback.

C/ 06 SC 6.2.1.1.2 Page 6 of 34 17/07/2009 11:35:53

Supported Type TR Comment Status X The text adds BSSID to the MA-UNITDATA request primitive. However, this is unnecessary since that iour He BSSID after it joins the WAVE BSS. I suspect the BSSID has been added for the purposes of communication or usuide the text. Comment Type TR Comment Status X Stephenson, Dave Cisco Comment Status X Comment Type TR Comment Status X The text adds BSSID to the MA-UNITDATA request primitive. However, this is unnecessary since that lower MAC will know the BSSID after it joins the WAVE BSS. I used the BSSID has been added for the purposes of communication or usitide the context of a BSSI' however since it is unclear to me what is meant by that or how it will be used, have made this comment. Suggested/Remedy Per comment. Proposed Response Response Status O Comment Type TR Comment Status X A new management frame subtype requested by the draft is unavailable. Earlier draft from To and To comment Status X A new management frame subtype requested by the draft is unavailable. Earlier draft from the draft and instead rouse an existing frame, such as an IBSS beach and def to the purposes of communication or usitid the context of a BSSID in bhe WAVE BSID at the text. Cid 60 SC 6.2.1.2.2 P4 L21 # [10130] Deletined - TGp voted to decline this comment. Antext management frame subtype orequested by the draft is unavailable. Earlif	C/ 06	SC 6.2.1.1.2	P 4	L 47-5	# 125104	C/ 06	SC 6.2.1.3.	2 P4	L 39	# 141032
Comment Type TR Comment Status X It would seem that BSSID to be been added for the purposed of communication or usids the added for the purposed of communication or usids the added for the purposed of communication or usids the added for the purposed of communication or usids the added for the purposed of communication or usids the added for the purposed of communication or usids the added for the purposed of communication or usids the added for the purposed of communication or usids the added for the purposed of communication or usids the added for the purposed of communication or usids the added for the purposed of communication or usids the added for the purposed feasible. It would seem that BSSID will only be supplied for dot1/OCBE nabled is true. If this is a the function of the form of the function	Stephens					Stephens				
used, have made this comment. Suggested/Remedy Declined - TGp voted to decline this comment. Anticipate further WG feedback. Cl 06 SC 62.11.2 P4 L9-12 # 125102 Stephenson, Dave Cisco Comment Type TR Comment Status X The text adds BSSI to the MALWITDATA.request primitive. However, this is unexessary since that lower MAC will know the BSSID after it joins the WAVE BSS. I auspect the BSS: Tho were since it is uncleated for a mode bard for on support sequested by the draft is unavailable. Earlier draft from TG na GTG comment subtypes to consumed for a mode hard on of useport security is wareful, user and this sonement. Suggested/Remedy Declined - TGp voted to decline this comment. Anticipate further WG feedback. Cl 06 SC 62.21.2 P4 L21 # 141030 Stephenson, Dave Cisco Cisco Comment Type TR Comment. Status X Proposed Response Response Status O Declined - TGp voted to decline this commune. Anticipate further WG feedback. Cl 06 SC 62.21.2 P4 L21 # 141030 Stephenson, Dave Cisco Cisco Cisco Comment Type TR Comment. Status X Comment Trame is needed because Tinsensing value sentout in the proposed frame. <	Comment The to unneo suspe conte	ext adds BSSID to cessary since that ect the BSSID has xt of a BSS"; how	to the MA-UNITDATA.request to lower MAC will know the BS been added for the purpose ever since it is unclear to me	primitive. Howe SID after it joins s of communicati what is meant by	ver, this is the WAVE BSS. I on "outside the v that or how it will be	Comment It wou then t comp	If ype IR Ild seem that B ext should so st liant. dRemedy	SSID will only be supplied i ate. Otherwise STAs pre-d	f dot11OCBEnabled lating 802.11p amer	t is true. If this is so, ndment will be non-
Suggested/kernedy Delete the text. Proposed Response Response Status O Connent Type TR Comment Status X Comment Type TR Comment Status X Connent Type TR Comment Status X Connent Type TR Comment Status S Suggested/Remedy Delet the text. Proposed Response Response Status O Counter - Atter discussion and review of the changes for Clause 6 in Draft 5.0, Task Group decided to remove all changes to Clause 6. Comment Type TR Comment Type TR Comment Type TR Comment Status X A new management transe subtype requested by the draft is unavailable. Earlier draft from TGn and TGs consume subtypes 1110 and 1111 respectively. Moreover, propose that ower made this comment. Suggested/Remedy Delet the text. Proposed Response Response Status O Declined - TGp voted to decline this comment. Anticipate further WG feedback. Cl 07 SC 7.1.3.1.2 P5 L 20 # [41039] Comment Type TR Comment Type TR Comment Type TR Comment Status X Comment Type TR Co	used,	I have made this	comment.			Per c	omment.			
Declared - TGP. Proposed Response Response Status: O Cl 06 SC 62.1.1.2 P4 L9-12 # 125102 Stephenson, Dave Cisco Comment Type TR Comment Status: X Comment Type TR Comment. Anticipate further WG feedback. Cior Stephenson, Dave Cisco Suspect the SSID has been added for the purposes of communication of voltide the bessiD has been added for the purposes of communication of voltide the consume subtype requested by the draft is unvailable. Earlier draft in one of the few remaining management frame subtypes 110 and 1111 respectively. Moreover, propositiant one of the few remaining management frame subtypes be consumed for an mode that do not apport security is wasteld, given all the work that has gone into securing management frame subtypes be consumed for a mode that do not apport security is wasteld, given all the work that has gone into securing management frame subtype tere seems to be no feature frames that could be productively put to use by other task groups. Suggested/Remedy Declined - TGp voted to decline this comment. Anticipate further WG feedback. Cl 06 SC 62.1.2.2 P4 L21 # 141030 Stephenson, Dave Cisco Cisco Content Type TR Comment Status X Comment Type TR Comment Status X Cisco Cior SC 7.1.3.1.2 P5	Suggeste	dRemedy				Proposed	Response	Response Status O		
Cl 06 SC 6.2.1.1.2 P4 L9-12 # 125102 Stephenson, Dave Cisco Comment Type TR Comment Status X The text adds BSSID to the MA-UNITDATA-request primitive. However, this is unnecessary since that lower MAC will know the BSSID after it joins the WAVE BSS. I suspect the BSSID has been added for the purposes of communication "outside the context of a BSS"; however since it is unclear to me what is meant by that or how it will be used. I have made this comment. SuggestedRemedy Declined - TGp voted to decline this comment. Anticipate further WG feedback. Cl 06 SC 6.2.1.2.2 P4 L21 # 141030 Comment Type TR Comment Status X Remove table? To from the draft and instead reuse an existing frame, such as an IBSS probe response or an action frame (as there seems to be no feature this amendment that relies upon the timestamp value sent out in the proposed Response Cl 06 SC 6.2.1.2.2 P4 L21 # 141030 Comment Type TR Comment Status X O It would seem that BSSID should only be included if dot110CBEnabled is true. If this is so, then text should so state. Otherwise STAs pre-dating 802.11p amendment will be non-complian. P5 L20 # 141039 SuggestedRemedy Per comment. P5 L20 # 141039 SuggestedRemedy Per comment. P5	Proposed Declir	<i>Response</i> red - TGp voted to	Response Status O o decline this comment. Anti	cipate further WG	Gfeedback.	Coun p dec	ter - After discus ided to remove	ssion and review of the cha all changes to Clause 6.	inges for Clause 6 in	n Draft 5.0, Task Group
Stephenson, Dave Cisco Comment Type TR Comment Status X The text adds BSSID to the MA-UNITDATA.request primitive. However, this is unnecessary since that lower MAC will know the BSSID after it joins the WAVE BSS. I suspect the BSSID has been added for the purposes of communication 'outside the context of a BSS', however since it is unclear to me what is meant by that or how it will be used. I have made this comment. Comment Type TR Comment Type TR Comment Status X SuggestedRemedy Delete the text. Proposed Response Response Status O SuggestedRemedy Remove table 7-1 from the draft and instead reuse an existing frame, such as an IBSS beacon, an IBSS probability put to use by other task groups. C/ 06 SC 6.2.1.2.2 P4 L21 # [141030] C/ 07 SC 7.1.3.1.2 P5 L20 # [141030] Stephenson, Dave Cisco Cisco Comment Type TR Comm	C/ 06	SC 6.2.1.1.2	P 4	L 9-12	# 125102	C/ 07 Barr, Johi	SC 7.1.3.1 .	2 P5 Motorola	L 20	# 141034
Comment Type TR Comment Status X The text adds ESSID to the MA-UNITDATA-request primitive. However, this is unnecessary since that lower MAC will know the BSSID after it joins the WAVE ESS. I suspect the BSSID has been added for the purposes of communication "outside the context of a BSS", however since it is unclear to me what is meant by that or how it will be used, I have made this comment. A new management frame subtypes 110 and 1111 respectively. Moreover, propose that one of the few remaining management subtypes be consumed for a model that do not support security is wasteful, given all the work that has gone into securing manage frames status used to use by other task groups. SuggestedRemedy Delete the text. Proposed Response Response Status O Declined - TGp voted to decline this comment. Anticipate further WG feedback. Remove table 7-1 from the draft and instead reuse an existing frame, such as an IBSS Content that BSSID should only be included if dot110CBEnabled is true. If this is so, then text should so state. Otherwise STAs pre-dating 802.11p amendment will be non-compliant. Response TR Comment Status X SuggestedRemedy Per comment. Proposed Response Response Status O Declined - Declined - Declined - Declined if dors uby per term escale because Times in and the two duals are used by higher farme. Management frame is needed because the southype for a subplice for subtype. It would seem that the following which has "1110" in strike-thru font is the value that was supposed to be used? SuggestedRemedy Per comment. Per comment. Proposed Response Response Status O SuggestedRemedy Per comment. Per comment.	Stephens	on, Dave	Cisco			Comment	Type TR	Comment Status X		
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Declined - Top Voted to decline this comment. Anticipate future WG feedback. Cl 06 SC 6.2.1.2.2 P4 L21 # 141030 Stephenson, Dave Cisco Cisco Cl 07 SC 7.1.3.1.2 P5 L20 # 141039 Comment Type TR Comment Status X Cisco Cisco Cisco SuggestedRemedy Per comment. Proposed Response Response Status O Cisco Comment. Proposed Response Response Status O Counter - After discussion and review of the changes for Clause 6 in Draft 5.0, Task Group p decided to remove all changes to Clause 6. Draft 5.0, Task Group p decided for and received Management frame subtype for this frame. Management frame is needed because Timestamp is needed by higher land	Proposed	Response	Response Status O	cipato furthor WC	foodback	Proposed	Response	Response Status O	value sent out in the	s proposed frame).
Crock Stephenson, Dave Cisco Comment Type TR Comment Status X It would seem that BSSID should only be included if dot110CBEnabled is true. If this is so, then text should so state. Otherwise STAs pre-dating 802.11p amendment will be non-compliant. Cl 07 SC 7.1.3.1.2 P5 L 20 # [141039] SuggestedRemedy Per comment. Proposed Response Response Status O Comment 5.0, Task Group p decided to remove all changes to Clause 6 in Draft 5.0, Task Group p decided to remove all changes to Clause 6. Cl 07 SC 7.1.3.1.2 P5 L 20 # [141039]					# [141020	Decli this fr	ned - Declined: I ame. Managen	Editor has applied for and r	eceived Manageme use Timestamp is n	ent frame subtype 6 for eeded by higher layers.
Comment Type TR Comment Status X Stephenson, Dave Cisco It would seem that BSSID should only be included if dot110CBEnabled is true. If this is so, then text should so state. Otherwise STAs pre-dating 802.11p amendment will be non-compliant. Stephenson, Dave Cisco SuggestedRemedy Per comment. This amendment should propose a value for subtype. It would seem that the following which has "1110" in strike-thru font is the value that was supposed to be used? Proposed Response Response Status O SuggestedRemedy Per comment. Proposed Response Response Status O Counter - After discussion and review of the changes for Clause 6 in Draft 5.0, Task Group p decided to remove all changes to Clause 6. Draft 5.0, Task Group	Stephens	on, Dave	Cisco		# <u>1</u> 41030	C/ 07	SC 7.1.3.1.	2 <i>P</i> 5	L 20	# 141039
It would seem that BSSID should only be included if dot110CBEnabled is true. If this is so, then text should so state. Otherwise STAs pre-dating 802.11p amendment will be non-compliant. SuggestedRemedy Per comment. Proposed Response Response Status O Counter - After discussion and review of the changes for Clause 6 in Draft 5.0, Task Group p decided to remove all changes to Clause 6. Comment Status C Comment Type TR Comment Status X This amendment should propose a value for subtype. It would seem that the following which has "1110" in strike-thru font is the value that was supposed to be used? SuggestedRemedy Per comment. Proposed Response Response Status O Counter - After discussion and review of the changes for Clause 6 in Draft 5.0, Task Group p decided to remove all changes to Clause 6. Comment Status C Comment Type TR Comment Status X This amendment should propose a value for subtype. It would seem that the following which has "1110" in strike-thru font is the value that was supposed to be used? SuggestedRemedy Per comment. Proposed Response Response Status O Declined - Declined: Editor has applied for and received Management frame subtype C this frame. Management frame is needed because Timestamp is needed by higher lage	Comment	Type TR	Comment Status X			Stephens	on, Dave	Cisco	-	
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Per comment. Proposed Response Response Status O Per comment. Proposed Response Response Status O Per comment. Counter - After discussion and review of the changes for Clause 6 in Draft 5.0, Task Group p decided to remove all changes to Clause 6. Poposed Response Response Status O Declined - Declined: Editor has applied for and received Management frame subtype 6 this frame. Management frame is needed because Timestamp is needed by higher lateration of the status of the	Suggeste	dRemedy				Suggeste	dRemedv			
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	Coun p dec	ter - After discuss ided to remove al	ion and review of the change l changes to Clause 6.	es for Clause 6 in	Draft 5.0, Task Group	Declin this fr	ned - Declined: I ame. Managen	Editor has applied for and r nent frame is needed becar	eceived Manageme use Timestamp is n	ent frame subtype 6 for eeded by higher layers.

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

C/ 07 SC 7.1.3.1.2 Page 7 of 34 17/07/2009 11:35:53

CI 07	SC 7.1.3	1.2 <i>P</i> 5	L 49	# 144078
Fischer, N	latthew	Broadcon	ו	
Comment	Type TR	Comment Status X		
l think frame	that you nee s, but the do	d to delete a row from this ta only describes one new mg	ble. You have defir mt frame.	ned two new mgmt
Suggeste	dRemedy			
Delete	e the first row	of the table that contains the	"Timing and inform	nation" mgmt frame.
Proposed	Response	Response Status 0		
Count using	ter - ***Withd the "Redline	awn by M Fischer *** WKF: doc".	Note this comment	t appears to be from
C/ 07	SC 7.1.3	3.3 P4	L 31	# 144048
Roy, Rich	ard	SRA		
Comment	Type TR	Comment Status X		
The p frame labelle of the deper in the be spe would stand	roposed cha header. The ed Address 1 BSSID is us nding on the ToDS and F ecified for the l otherwise be ard yet), the TAN No vall	ge is targetted at unnecessa BSSID field is not actually a Address 2, Address 3, and ad to populate one of the first alues of the RA, SA, and DA omDS bits in the frame contr case where the RA = DA ar indeterminate. In all other s BSSID field" should be popul technical reason has been	rily restricting the " field in the header there is also Address three Address field (which also determ ol field). The "BSS d SA = TA (ToDS = ituations (not speci lated with the appro	BSSID field" in the MAC (the fields are actually as 4). Rather the value ds in the header nine the values to be set SID field" needs only to = FromDS = 0) where it fied in the 802.11 opriate address (either restricting the address

SuggestedRemedv

Remove the added sentence, and insert the changes to clause 7 found in 11-09-0102-05-000p-clause 7 MAC frame header related changes.doc

fields in the MAC header when transmitting frames outside the context of a BSS.

Proposed Response Response Status **O**

Declined - Declined - see 11-09/0503r2

C/ 07	SC 7.1.3.3.3	P 5	L19	# 125117
Roy, Richa	ard	SRA		

Comment Type **TR** Comment Status **X**

The concept of a WBSS is unnecessary. The additional functionality required to make STAs WAVE capable neither depends on nor does it require any concept of associating in any way with other STAs. As stated, this amendment specifies functionality that allows STAs to communicate outside the context of any BSS, and the introduction of the term/concept WBSS only confuses the matter, not to mention the implementer. Furthermore, without a WBSS, there is also no associated BSSID. There is, however, a field in transmitted frames often referred to in the standard as the BSSID field as it often contains the same value as that stored in the BSSID variable. This does not change the fact that it is used to filter the packets at the MAC layer and as such, is a frame or packet filter field in reality, which for WC STAs operating outside the context of a BSS is set by higher layers.

SuggestedRemedy

Rewrite this sentence to read: "The value of the BSSID field in frames transmitted by WC STAs outside the context of a BSS is not specified in this standard."

Proposed Response Response Status **O**

Counter - ACCEPT IN PRINCIPLE New wording reflects the intent of this suggestion.

CI 07	SC 7.1.3.3.3	P 5	L 25	# <u>1</u> 25120
Yang, Zhiyu	L	Marvell	Semiconductor	

Comment Type TR Comment Status X

What is the BSSID used in the Link RCPI Request? Is it the BSSID of the AP?

SuggestedRemedy

Use the AP s BSSID.

Proposed Response Response Status **O**

Declined - DECLINED: we are describing a method of communication outside of a BSS in which there is no AP.

C/ 07 SC 7.1.3.3.3 P5 L25 # 125121	CI 07 SC 7.1.3.3.3 P6 L10 # 141054			
Yang, Zhiyu Marvell Semiconductor	Ecclesine, Peter Cisco Systems			
Comment Type TR Comment Status X	Comment Type TR Comment Status X			
A non AP STA decides to establish a DLS with another non AP STA after sending it a Link RCPI and then determines if it should establish a peer link or not. However the non AP STA may be in Power Save mode and might not respond.	The scope of this amendment is restricted to 5 GHz bands. The restriction of wildcard value (all 1's) is beyond the scope of the PAR, and should be qualified by some language that is within scope.			
SuggestedRemedy	SuggestedRemedy			
The non AP STA should send the Link RCPI after the DTIM beacon.	Rewrite this subclause using language that is clearly restricted to operation within the			
Proposed Response Response Status O	scope of the 802.11p PAR.			
Declined - REJECT: In Draft 802.11p we are not talking about Direct Link communication in which the peer link is established after negotiation through an AP, but a new way of sending data frames without prior authentication or association.	Declined - See doc: 11-09-0020 and response in CID 10.			
	C/ 07 SC 7.1.3.3.3 P6 L12 # 141057			
Stephenson Dave Cisco	Stephenson, Dave Cisco			
Commont Tures TD Commont Status V	Comment Type ER Comment Status X			
A wildcard BSSID should not be used in WAVE mode; the BSSID should be the BSSID in the WAVE Beacon. SuggestedRemedy Delete the text.	permitted elsewhere in this standard.", the text were to revert to the text in IEEE 802.11- 2007 and add the specific exception here or a reference to the clause elsewhere in the draft which has the exception. SuggestedRemedy			
Proposed Response Posponse Status	Per comment.			
Declined - REJECT: communication using the wildcard BSSID need not be preceded by a WAVE Beacon; communication outside of a BSS may require the use of wildcard BSSID for acceptance of broadcast packets.	Proposed Response Response Status O Declined - The 'elsewhere' is used in the base standard and refers to subclauses: 7.2.3, 7.3.2.1, 11.1.3, and 11.1.3.2.1.			
CI 07 SC 7.1.3.3.3 P5 L30 # 125126	CI 07 SC 7.1.3.5.1 P4 L43 # 144051			
Roy, Richard SRA	Roy, Richard SRA			
Comment Type TR Comment Status X	Comment Type TR Comment Status X			
WAVE is not a separate "mode" of operation of a STA. The WAVE amendment provides additional specifications that allow STAs to communicate (i.e., send data, management, and control frames) outside the context of any BSS.	The insertion states that since TSs are not used, the TID always corresponds to a TC. This conclusion does not follow. There are other uses of TID values in the range 8-15 other than just identifying a TS. In particular, these values can be used by peer QoS STAs			
SuggestedRemedy	to identify a set of MSDUs being transmitted using the Block Ack facility. As this facility			
Replace "2. Data frames transmitted in WAVE mode." with "Any frames transmitted by WC STAs operating outside the context of a BSS "	SuggestedRemedy			
Proposed Response Response Status O	Rewrite the paragraph to allow TID values from 8-15 to identify peer-to-peer Block Ack			
Counter - ACCEPT IN PRINCIPLE New wording reflects the intent of this suggestion.	exchanges.			
	Proposed Response Response Status O			

C/ 07 SC 7.1.3.5.1

C/ 07	SC 7.2.2	P 5	L10	# 144068
Roy, Rich	nard	SRA		

Comment Status X Comment Type **TR**

The additional material "if dot110CBEnabled is true, to ensure that the BSSID is the wildcard BSSID" and the added item c) are directed at changing the value of a parameter (the BSSID) which is unrelated to operation outside of a BSS. Also, the proposed change is targetted at unnecessarily restricting the "BSSID field" in the MAC frame header. The BSSID field is not actually a field in the header (the fields are actually labelled Address 1, Address 2, Address 3, and there is also Address 4). Rather the value of the BSSID is used to populate one of the first three Address fields in the header depending on the values of the RA, SA, and DA (which also determine the values to be set in the ToDS and FromDS bits in the frame control field). The "BSSID field" needs only to be specified for the case where the RA = DA and SA = TA (ToDS = FromDS = 0) where it would otherwise be indeterminate. In all other situations (not specified in the 802.11 standard yet), the "BSSID field" should be populated with the appropriate address (either RA or TA). No vallid technical reason has been offered to date for restricting the address fields in the MAC header when transmitting frames outside the context of a BSS.

SuggestedRemedy

Make the changes suggested in 11-09-0102-05-000p-clause 7 MAC frame header related changes.doc and remove the changes in this draft.

Proposed Response Response Status 0 Declined Declined and 11 00/0502-2

	Declined -	Declined -	see	1-09/0503r2
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<i>CI</i> 07 Durand, Ro	SC 7.2.2 oger	Р 5 RIM	L 3	# 144057]
Comment 7 The co	<i>Type</i> TR ncept and use of	Comment Status a "wildcard BSSID"	X is not defined		
Suggested define	Remedy the "wildcard BS	SID"			
Proposed F Decline	Response ed - See 7.1.3.3.3	Response Status	0		

Engwer, Darwin Nortel Networks Comment Type ER Comment Status X "broadcast" and "multicast" are non-standard IEEE 802 terms. SuggestedRemedy Change to "group addressed frame" Proposed Response Response Status O Declined - Declined - TGp did not modify the text. "broadcast address subclause 3.18 of IEEE Std 802.11-2007. "multicast" is defined in s Std 802.11-2007. "multicast" is defined in s Std 802.11-2007. In addition, the terms are defined in IEEE Std 100 stds. Perhaps this comment should better be addressed to TGmb. 2007 there are 138 instances of "broadcast" and 162 instances of "n Cl 07 SC 7.2.2 P6 L15 Stephenson, Dave Cisco Comment Type TR Comment Status X The text states that a STA in WAVE mode use the wildcard BSSID. STAs must pass these frames up the stack since the lower MAC can BSSID. Upper MAC will have to process all of these frames and if S (non-WAVE mode) has to determine whether the STA is associated decision on whether to forward or drop the frame. SuggestedRemedy Delete the use of wildcard BSSID for data frames outside the context Proposed Response Response Response Status O Declined - REJECT: data communication outside of a BSS may require wildcard BSSID to allow the acceptance of broadcast packets. Whet problem for a nearby AP is a system integration and performance is: Cl 07 SC 7.2.2 P6 L39<	
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SuggestedRemedy Change to "group addressed frame" Proposed Response Response Status O Declined - Declined - TGp did not modify the text. "broadcast address subclause 3.18 of IEEE Std 802.11-2007. "multicast" is defined in s Std 802.11-2007. In addition, the terms are defined in IEEE Std 100 stds. Perhaps this comment should better be addressed to TGmb. 2007 there are 138 instances of "broadcast" and 162 instances of "n C/ 07 SC 7.2.2 P6 L15 Stephenson, Dave Cisco Comment Type TR Comment Status X The text states that a STA in WAVE mode use the wildcard BSSID. STAs must pass these frames up the stack since the lower MAC car BSSID. Upper MAC will have to process all of these frames and if S (non-WAVE mode) has to determine whether the STA is associated decision on whether to forward or drop the frame. SuggestedRemedy Delete the use of wildcard BSSID for data frames outside the context Proposed Response Response Response Status 0 Declined - REJECT: data communication outside of a BSS may require wildcard BSSID to allow the acceptance of broadcast packets. Whet problem for a nearby AP is a system integration and performance is: C/ 07 SC 7.2.2 P6 L39 Stephenson, Dave Cisco Comment Type TR Comment Status X O Declined - REJECT: data communication	
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Stephenson, Dave Cisco Comment Type TR Comment Status X The text states that a STA in WAVE mode use the wildcard BSSID. STAs must pass these frames up the stack since the lower MAC can BSSID. Upper MAC will have to process all of these frames and if S (non-WAVE mode) has to determine whether the STA is associated decision on whether to forward or drop the frame. SuggestedRemedy Delete the use of wildcard BSSID for data frames outside the context Proposed Response Response Status O Declined - REJECT: data communication outside of a BSS may require wildcard BSSID to allow the acceptance of broadcast packets. Whet problem for a nearby AP is a system integration and performance is: Cl 07 Stephenson, Dave Cisco Comment Type TR Comment Status Any non-11p STAs in radio range of an 11p STA that have a BSSID used by an 11p device, may erroneoulsy pass up their stack the 11p be properly filtered by the lower MAC.	# 125144
Comment Type TR Comment Status X The text states that a STA in WAVE mode use the wildcard BSSID. STAs must pass these frames up the stack since the lower MAC can BSSID. Upper MAC will have to process all of these frames and if S (non-WAVE mode) has to determine whether the STA is associated decision on whether to forward or drop the frame. SuggestedRemedy Delete the use of wildcard BSSID for data frames outside the context Proposed Response Response Status O Declined - REJECT: data communication outside of a BSS may require wildcard BSSID to allow the acceptance of broadcast packets. Whether problem for a nearby AP is a system integration and performance is: Cl 07 SC 7.2.2 P 6 L 39 Stephenson, Dave Cisco Comment Status X Any non-11p STAs in radio range of an 11p STA that have a BSSID used by an 11p device, may erroneoulsy pass up their stack the 11p be properly filtered by the lower MAC.	
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Stephenson, Dave Cisco Comment Type TR Comment Status X Any non-11p STAs in radio range of an 11p STA that have a BSSID used by an 11p device, may erroneoulsy pass up their stack the 11p be properly filtered by the lower MAC.	# 141064
Comment Type TR Comment Status X Any non-11p STAs in radio range of an 11p STA that have a BSSID used by an 11p device, may erroneoulsy pass up their stack the 11p be properly filtered by the lower MAC.	-
Any non-11p STAs in radio range of an 11p STA that have a BSSID used by an 11p device, may erroneoulsy pass up their stack the 11p be properly filtered by the lower MAC.	
	matching the BSSI frame; i.e., it will no
SuggestedRemedy Suggest that 11p BSSIDs are required to set the locally administere	
Proposed Posperso Posperso Status O	d bit in the MAC
Counter TCp pour upon the Wild Cord BSS	d bit in the MAC er have this problen

TIFL. INtechnical required Litteditional required GR/gener	a required Theorinical Lleuitonal Gly	Elleral	01 07	Dogo 10 of 24
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/w	ritten C/closed U/unsatisfied Z/withdray	vn C/ U/	Page 10 01 34
SORT ORDER: Clause, Subclause, page, line			SC 7.2.2	17/07/2009 11:35:53

C/ 07 SC 7.2.2 P6 L6 # 125143 Fischer, Matthew Broadcom Broadcom	C/ 07 SC 7.2.3.1 P6 L22 # 125149 Roy. Richard SRA
Fischer, Matthew Broadcom Comment Type TR Comment Status X You need to add instructions regarding how to fill in address3 when in WAVE mode. This is in direct reference to the combination of the fact that you indicated that ToDS and FromDS will determine the address3 in some cases. I note that you do have a general statement about how to determine the BSSID value for a WAVE STA, but that is not sufficient in this case, because the behavior description limits the STAs to either those in a BSS or those in an IBSS, and you are neither, so the definition of the BSSID that you have added here, while a good start, is insufficient. SuggestedRemedy Alter the baseline text from subclause 7.2.2 that includes the following phrasing: The BSSID of the Data frame is determined as follows: a) If the STA is an AP or is associated with an AP, the BSSID is the address currently in use by the STA contained in the AP. b) If the STA is a member of an IBSS, the BSSID is the BSSID of the IBSS.	Roy, Richard SRA Comment Type TR Comment Status X Beacon management frames are being used for a purpose to which they are ill-suited. The beacon frame should not be overloaded with additional functionality that is orthogonal to its basic purpose, that of initiating and maintaining BSSes, and communication by WC STAs outside the context of a BSS is exactly that, communication without a BSS. A beacon frame is not required. SuggestedRemedy Remove the ONDEMANDBEACON frame and replace it with a Timing Synchronization management frame that has the accurate Timestamp required. Include optional information elements that are necessary for higher layer synchronization, the TimeSlotChannelConfiguration IE, and the optional HLIE. Proposed Response Response Status O Counter - COUNTER: eliminate on-demand beacon, but include only timestamp and HLIE, not clear what the TIE contents would be P6 L45 # 125166 Row Richard SRA
By adding another condition as follows: c) If the STA is operating in WAVE mode, the BSSID is either the address of the associated WAVE mode BSS or is the wildcard BSS value. Proposed Response Response Status O Counter - ACCEPT IN PRINCIPLE Wording has been added to describe the use of address 3 when sending data frames outside of a BSS. The exact wording suggested by the commenter does not apply since we have removed the WAVE BSS concept.	Comment Type TR Comment Status X The HLIE contains infromation that is used by higher layers to take certain actions. Logically, it should be transmitted in an action frame. SuggestedRemedy Add a HL action frame, the contents of which at a minimum are one or more HLIEs Proposed Response Response Status O Declined - REJECT: addition of a new frame would make action frame redundant. O
	CI 07 SC 7.3.1.3 P6 L 53 # 125169 Fischer, Matthew Broadcom Comment Type TR Comment Status X Is every beacon in WAVE an on-demand beacon? Does this mean that the vehicles are constantly sending probes across a set of channels looking for a response? If so, you really need to state this somewhere in clause 11. SuggestedRemedy Clarify. Proposed Response Response Status O Counter - See Comment 167 and its resolution.

C/ 07 SC 7.3.1.3

CI 07	SC 7.3.2	P 7	L16	# 125181
Rov. Rich	hard	SRA		

Comment Type TR Comment Status X

Along with higher layer synchronization comes the ability to specify time slots for general use by STAs. This specification is necessary for more efficient use of spectrum in ITS operations and could also be very useful for mesh operations (cf. TGs discussions of possible mesh slots, etc.).

SuggestedRemedy

Add a TimeSlotChannelConfiguration information element that contains the information necessary to uniquely specify how a given RF channel is divided into time slots, including relevant synchronization information. Include EDCA parameter sets for non-overlapping time slots. Add the TIE to the list of optional elements in management and action frames that are used to send channelization information over the air.

Proposed Response Response Status O

Declined - Comment Declined.

CI 07	SC 7.3.2.26	P 6	L 38	# 144085
Montemurro,	Michael	Research in Motio	n	-

Comment Type TR Comment Status X

The vendor-specific IE uses the OUI as a namespace to avoid collisions between custom IE definitions. This namespace can only be managed by one organization.

Also, making the OUI field variable would make this IE nearly impossible to parse correctly.

SuggestedRemedy

If there is a need to create a different namespace, either define a new IE or have IEEE allocate an OUI specific to the organisation that will be managing the "variable length" vendor identifier.

Proposed Response Response Status **O**

Counter - There is no need to create another namepsace. 802.11-2007 does not reflect the current situation with respect to the Organizationally Unique Identifier namespace managed by the IEEE-RA. The IEEE-RA itself has reserved certain 24-bit OUI values and then shared these over multiple vendors/organizations by adding an additional 12-bits of identification to result in longer organizationally unique identifiers (OUI-36 and IAB). The changes added by TGp resolve this.

CI 07	SC 7.3.2.26	P 6	L 39	# 144086
Durand, Rog	jer	RIM		

Comment Type **TR** Comment Status **X**

"multiple vendor specifc information elements may appear in a single frame". "each vendor specific information element can have a different organization identifier value" there is no detail on what this is or why it is here. What is this, over?

SuggestedRemedy

This appears to be a trojan horse in 11p? Either develop a real standard by selecting a specific OUI and/or getting one assigned thru IEEE or elsewhere and describing it in sufficient detail to do something as a standard. Or, consider disbanding 802.11p and let individual proprietary and likely incompatible solutions compete?

Proposed Response Response Status **O**

Declined - There is no trojan horse here. 802.11-2007 already permits multiple vendor specific information elements and there is no restriction that these all contain the same OUI. TGP, or rather IEEE 1609 working group have obtained a since unique identifier from the IEEE-RA. See also response to CID 85

CI 07	SC 7.3.2.26	P6	L 42	# 144087
Bumiller,	George			

Comment Type TR Comment Status X

(Pp 6&7, Ln 42 to 16) The clause speaks of an "Organization Identifier" which is evidently the OUI.

SuggestedRemedy

Simply state that the OUI (Organizationally Unique Identifier)" is used to identify the organization that controls the "Vendor-specific content" in the Vendor Specific information element. The clause needs a careful rewrite.

Proposed Response Response Status **O**

Declined - The proposal to just use OUI is imprecise because the IEEE Registration Authority, and also IEEE 802, defines the OUI as the 24-bit identifier. The IEEE Registration Authorit has also assigned 36-bit unique identifiers. Within the same namespace To be specific to vendor the identifer must support 36-bit identifiers. Since OUI is used elesewhere in 802.11, and by the IEEE-RAC and IEEE 802 to specifically refer to the 24-bit OUI, a new field name is proposed. see also response to CID 85

C/ 07 SC 7.3.2.26 Page 12 of 34 17/07/2009 11:35:53

C/ 07	SC 7.3.2.26	P 6	L 48	# 144091	CI 07	SC 7.3.2.26	P6	L 50	# 144093
Thomson,	Allan	Cisco System	S		Myles, An	drew	Cisco		
Comment Type TR Comment Status X By introducing a variable length OUI field this will break implementation on STAs that assume the OUI field is always 3 octets. In addition there is no way to know the field is 3 or 5 octets from the length field as the length field defines the total length of the variable content - 3 whereas that is not true anymore. This change is not backward compatible.					Comment Type TR Comment Status X The text provides a mechanism to specify 5 octet OUI's, whereby the first three octets specifies whether the field is 3 or 5 octets. It is not clear whether or not the method for using the first three octets to specify a field learth of 5 octets.				
Suggestee Either compl	dRemedy r create a new ver letely.	dor specific element for the	5 octet variant or	remove this change	* If it i not ve * If it i	s then the drfat h ery useful s not then it wou	as effectively succeeded in dl have been better for the	creating a 2 octe owner of the 3 oc	t OUI, which is clearly tet OUI to just use a
Proposed Declir unique octets	Response ned - This will not e identifiers and th s of the field the le	Response Status O break exisitng STAs. Only c nese are known and controlle ngth is known.	ertain OUI value d by the IEEE-R	s result in 5 octet A. Thus from the 1st 3	Ionger Vendor specific field The bottom line is that this featrures appears to be ill thought out SuggestedRemedy				
C/ 07	SC 7.3.2.26	P 6	L 48	# 144090	Remo				
Bumiller, (George				Proposea	Response	Response Status O		that 000 44 has not
Comment Type TR Comment Status X (7.3.2.26 and elsewhere) The text reads "The IEEE currently assigns both 24-bit (OUI) and 36-bit (OUI-36 and IAB) public unique organization identifiers."					kept up with the changes made by the IEEE-RA in unique vendor and organization identification. The means of knowning whether it is 3 or 5 octets is by inspection of the first 3 octets. The IEEE-RA has specifically identified which are 3-octet values are further subdivided over multiple vendors.				
Here, with re Uniqu	and elsewhere in espect to the IEEE e Identifier", not "	the draft, the phrase "public E-assigned OUIs. Now, the li unique organization identifie	unique organiza EEE uses OUI fo ". Using the OUI	tion identifiers" is used r "Organizationally , one should conform	C/ 07 Montemur	SC 7.3.2.26 rro, Michael	P 6 Research in	L 53 Motion	# 151051
to _th	at_ standard. The	faqs published by the IEEE	Standards Asso	ciation also say "The	Comment	Type TR	Comment Status X		
other names for OUI and IAB are: MAC Address, Vendor Address, Vendor ID, NIC Address, Ethernet Address and others." Suggest that the primary phrasing, "Organizationally Unique Identifier" should be used. Add a note if you wish stating that it's going used as a 'unique organization identifier'. But the basic phrasing of the OUI standard				Yendor ID, NIC rasing, u wish stating that it's ng of the OUI standard	By ma receiv mann conte	aking the OUI var er to be able to p er, there is now a nts of the two fiel	iable (as well as the Vendo parse the IE. Also, by accom possibility that vendor-spe- ds.	r-specific content nodating different cific IE's can colli), it is impossible for the length OUI's in this de depending on the
Abbre	viations and acro	nyms.	1-2007 11313 001	In clause 4,	Suggeste	dRemedy			
Proposed Response Response Status O Counter - Agree in principle. See response to 88					Either (like F	create a new ver F-FF-FF), with a	ndor-specific IE to address n OUI length field, followed	OUI length > 3 or by the OUI in the	use an unassigned OUI vendor-specific IE.
					Proposed	Response	Response Status O		
					Count	er - Counter. Se	e CID 50.		

CI 07 SC 7.3.2.26

CI 07	SC 7.3.2.26	P 6	L 53	# 151050
Durand, Rog	er	RIM		

Comment Type **TR** Comment Status **X**

By making the OUI variable (as well as the Vendor-specific content), it is impossible for the receiver to be able to parse the IE. Also, by accomodating different length OUI's in this manner, there is now a possibility that vendor-specific IE's can collide depending on the contents of the two fields.

SuggestedRemedy

Either create a new vendor-specific IE to address OUI length > 3 or use an unassigned OUI (like FF-FF-FF), with an OUI length field, followed by the OUI in the vendor-specific IE.

Proposed Response Response Status O

Counter - Counter. Insert for clarification the following as the penultimate sentence in the first paragraph of 7.3.1.21, "The IEEE assigns 36-bit organizationally unique identifiers such that the OUI portion indicates that total length of the identifier is 36 bits." The IEEE-Registration Authority has identified which 3-octet OUIs have been extended to longer identifiers by sharing the 3-octet value over multiple vendors/organizations. A STA that is able to understand a vendor specific IE beginning with one of the subdivided 3-octet OUIs will already know the length based on the first 3 octets.

CI 07	SC 7.3.2.26	P 7	L1	# 144096
Stephenso	on. Dave	Cisco		

Comment Type **TR** Comment Status **X**

The changes to the vendor specific element make it un-parsable. The receiver of this element has no way of knowing the length of the OUI element.

SuggestedRemedy

Add a new VSIE having a 36-bit OUI so legacy implementations won't be affected by this change.

Proposed Response Response Status O

Declined - The IEEE-Registration Authority has identified which 3-octet OUIs have been extended to longer identifiers by sharing the 3-octet value over multiple

vendors/organizations. A STA that is able to understand a vendor specific IE beginning with one of the subdivided 3-octet OUIs will already know the length based on the first 3 octets.

CI 07	SC 7.3.2	26 P7	L3	# 151052		
McCann,	Stephen	Research	in Motion			
Comment	Type TR	Comment Status X	Comment Status X			
lt app eleme	ears that the ent only provid	lelds in Figure 7-75 can not les 'n'. Hence the OUI length	be parsed, as the line is the line is unknown.	ength field of the		
Suggeste	dRemedy					
l suga then p differa	gest that since perhaps a sing enciate betwe	the OUI length can be expe gle bit could be used in the V en a 'j' value of 3 or 5, so tha	cted to be either 3 'endor Specific Info at the element can I	or 5 octets (short/long), rmation element to be correctly parsed.		
Proposed	Response	Response Status 0				
Coun	ter - Counter	See CID 50				

C/ 07	SC 7.3.2.27	P 8	L14	# 125201
Fischer, Matt	hew	Broadcom		

Comment Type TR Comment Status X

There is sort of a dilemma here - on the one hand, this element is for capabilities, not feature enablement indication, which is what you seem to have chosen to use it for. On the other hand, I am not in favor of adding the huge overhead of yet another element to support just one or two bits of additional signaling.

SuggestedRemedy

At a minimum, maybe we want to change the name of this element from Extended Capabilities to Extended Capabilities and Features Signaling or something like that. Worst case is that we move the two new bits to some other element, like the WAVE IE, which I think is best, unless you can convince me of a good reason why there would ever be ZERO WAVE IEs in a WAVE beacon...

Proposed Response Response Status **O**

Counter - No longer using a WAVE Beacon.

C/ 07	SC 7.3.2.27	P 8	L 22	# 125209
Roy, Richard		SRA		

Comment Type TR Comment Status X

The WAVE indication bit is meant to indicate that the STA is WAVE Capable.

SuggestedRemedy

Change "WAVE indication" to "WAVE Support" in column 2 and change the Notes column to read: "If MIB attribute dot11WAVECapable is true, then the WAVE Support bit is set to 1, otherwise it is set to 0.

Proposed Response Response Status **O**

Counter - COUNTER: ACCEPT IN PRINCIPLE New wording reflects the intent of this suggestion.

~ ~-

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I YPE: I R/Ieconical required	ER/editorial reduired	GR/deneral reduired	1/fechnical	E/editorial	(J/deneral
	El l'outtoriul loguilou	on vgonoru rogunou	1/1001111001	E/Cultonul	O/gonorui

COMMENT STAT	US: D/dispatched	A/accepted	R/rejected	RESPONSE STATUS: O/open	W/written	C/closed	U/unsatisfied Z/withdrawn	C/ U /	
SORT ORDER:	Clause, Subclause	e, page, line						SC 7.3.2.27	

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C/ 07	SC 7.3.2.27	P 8	L 27	# 141097
Rov. Ricl	hard	SRA		

Comment Type TR Comment Status X

The current format of the HLIE does not provide for an OUI field that could be used to indentfy the "source" of that HLIE. Thus, there is no way to know to which standard the HLIE conforms, unless one assumes that the extended capabilites bit being set in addition to announcing that the STA is capable of communicating outside the context of a BSS, it also points to a particular standard where the contents of the HLIE is specified (eg., 1609.3, .4). This ovelroads the use and meaning of this one bit which is not recommended, and furthermore, requires every developer of a different format for the HLIE to modify the 802.11 standard so that the new HLIE can be recognized. This is not a good idea.

SuggestedRemedy

The HLIE should include an OUI field so that by simply requesting an OUI from the numbering authority (and not having to revise the 802.11 standard) various standards organizations can develop their own HLIE if they so desire. This then obviates the need for an extended capabilities bit to indicate to which standard the HLIE complies. Once the OUI is included in the HLIE, there is no obvious need to announce over the air that a particular STA does or does not communicate outside the context of a BSS, and the use of this bit should be eliminated altogether from the standard.

Proposed Response Response Status **O**

Declined - Declined: see CID 72

CI 07	SC 7.3.2.29	P 10	L 53	# 144159		
Fischer, Ma	tthew	Broadcom				
Comment Type TR Comment Status X Where are the default values for the non-BSS case?						
SuggestedRemedy Provide guidance on default values for EDCA parameter set for STAs outside of a BSS.						
Proposed F	Response	Response Status O				

Declined - See	Table 7-37a
Declined - See	Table 7-37a.

CI 07	SC 7.3.2.29	P 7	L18	#	151063
Stephenson	, Dave	Cisco			

Comment Type TR Comment Status X

Adding the phrase "For an infrastructure BSS" leaves the use of this element undefined for IBSS operation.

SuggestedRemedy

Define how this element is used in IBSS operation.

Proposed Response Response Status **O**

Declined - Declined. The phrase was added for clarification, since an Infrastructure BSS was already implied because the EDCA parameter set was used by the AP.

CI 07	SC 7.3.2.29	P 7	L 29	# 151060
Malarky, Ala	stair	Mark IV IVHS		

Comment Type ER Comment Status X

The form "set to" should be used when describing the action of setting. The style usage is clearer from the example "if X is true, then Y is set to TRUE". Here you are referring to actions to take based on the value of dot110CBEnabled.

SuggestedRemedy

Change "for STAs with dot110CBEnabled set to FALSE" to "for STAs where dot110CBEnabled is false"

Proposed Response Response Status **O**

Declined - Declined - Actually, in this case, there is not really an action being taken, but rather the default values are used when the attribute is set to FALSE.

C/ 07	SC 7.3.2.29	P 8	L1	# 144108			
Perahia, Eld	ad	Intel					
Comment Ty	vpe TR	Comment Status	K				
I'm assuming that TGp is using a clause 17 PHY. If so, why does it not have a TXOP limit for AC_VI and AC_VO?							

SuggestedRemedy

please clarify

Proposed Response Response Status **0**

Declined - For OCB operation, the TXOPs are limited to a single MSDU.

C/ 07 SC 7.3.2.65 P8 L6 # 151064	Cl 07 SC 7.3.2.80 P8 L 34 # 144118
Roy, Richard SRA	Stephens, Adrian intel
Comment Type TR Comment Status X	Comment Type TR Comment Status X
The information element contains an estimated difference (offset) in Time values, not a Time value. It is also missing opitional higher order terms.	The structure of Figure 7-95a2 is very odd. I don't know whether to interpret the blanks as don't cares or some specific unmentioned value.
SuggestedRemedy	SuggestedRemedy
The Time Value field should be renamed (it previously was an offset) and the optional higher terms (linear and quadratic) added (see 11-08/1165rx).	Restructure it into a timing source subfield (b0-b2) a "timing source is available" field b3 and a reserved field b3-b7. Draw a diagram showing these three subfields. Then describe
Proposed Response Response Status O	the encoding of the subfields below the diagram, like elsewhere in the standard.
Declined - Declined. This is the language that was agreed upon with TGu and TGv.	Proposed Response Response Status O
C/ 07 SC 7.3.2.80 P8 L17 # 144110	Counter - Counter: replace with descriptions of bit 3 and bits 5-7 (similar to 7.3.2.25.3 of the base document) and a table for bits 0-2.
Thomson, Allan Cisco Systems	C/ 07 SC 7.3.2.80 P9 L1 # 144125
Comment Type TR Comment Status X	Perahia. Eldad Intel
The advertisement of time was added to TGv. This new element in TGp duplicates much of	Comment Type TR Comment Status X
that functionality. Secondly, the complexity of this new element is far beyond what is	Time represented as an offset from TSE seems redundent especially since the field does
	not get any smaller by doing so. Time can be based of the same clock as TSF and still be
SuggestedRemedy Remove this timing element and just incorporate or rely on changes introduced to TGv to advertise time.	presented in a different format. It would appear that the intent is to distribute a more accurrate time (nanosecond resolution) that TSF since the offset and TSF are both present in the same frame, so this seems doubly redundent.
Proposed Response Response Status O	SuggestedRemedy
Declined - Per 802.11v D5.01, the Timing Measurement frame is an Action frame. 802.11p	Remove the Timestamp field and represent as actual absolute time, not offset from TSF
requires a Management frame so that hardware can properly set the Timestamp.	Proposed Response Response Status
C/ 07 SC 7.3.2.80 P8 L26 # 144115	Declined - The timestamp is required to transmit the most accurate time information
Perania, Eload Intel	
Comment Type TR Comment Status X	C/ 07 SC 7.3.2.80 P9 L 13-1 # 125240
The reserved field in the IE is unecessary. Setting the length field to 16 should be sufficient	Stephenson, Dave Cisco
length.	Comment Type ER Comment Status X
SuggestedRemedy	Additional text would be much more helpful to the reader than only stating the information
Remove reserved field. Also fix Table 7-26 entry.	is outside the scope of this document. It would be VERY helpful to have an informative appex providing an overview of WAVE operation (i.e., describe setting up a WAVE BSS
Pronosed Response Pesponse Status O	discovering WAVE STAs and communication between them).
Accented - Accented See CIDs 82 and 114	SuggestedRemedy
	Add an informative annex.

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

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

I YPE: I R/technical required ER/editorial required GR/general required T/technical E/editorial G/general	CL 07	Dege 16 of 24
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn		Page 16 01 34
SORT ORDER: Clause Subclause nage line	SC 7.3.2.80	17/07/2009 11:35:53
SONT ONDEN. Glause, Subclause, page, line		

Cl 07 Stephenso	SC 7.3.2.80 n, Dave	P 9 Cisco	L13-1	# 125241	C/ 07 Stephens,	SC 7.3 Adrian	.3.29	P 7	L 44	# 144106
Comment Additio	<i>Type</i> ER nal text would be de the scope of t 609 series of spe	Comment Status X e much more helpful to the re this document. It would be v ecification.	eader than only s /ERY helpful to h	tating the information have references to	Comment "This of a BSS u	<i>Type</i> 1 EDCA para unless over	'R ameter rridden	Comment Status X set shall be used by a STA t by the SME."	ransmitting a fra	ame outside the context
Suggested Add er Proposed I	Remedy tries to Annex P Response	for IEEE Response Status O			There There 2. wha comm	are two pr 's a better at comprise nunicated?	oblems home f es "ove How i	with this: 1. Normative beh or this in clause 9. rridden by the SME"? Acros s the fact that it has taken pl	naviour is depre s what interface ace be recorded	cated in clause 7. : is this "overriding" d?
Declined - This comment is deemed editorial and delegated to the document editor for consideration in developing future drafts. Please note that the IEEE standards are edited professionally prior to publication.					SuggestedRemedy Specify solely in terms of the initial values of the MIB variables that control EDCA shall be set to the values in this table. If the SME comes along later and medifies them, that's up					
CI 07	SC 7.3.2.80	P 9	L 8	# 144132	to the	SME, and	d doesn	't need to be described as an	n "overriding" op	peration.
Roy, Richa	rd	SRA		•	Proposed	Response		Response Status O		
Comment The Til	Type TR ming information	Comment Status X element is mssing very valle	uable first and se	cond order terms that	Count insert	ter - Counter ion mirrors	er: rem langua	ove the sentence in question ge in the base document.	. The previous	sentence in the
Suggested					C/ 07	SC 7.4	.5	P 8	L 27	# 144116
Suggested Add th	Remeay a ontional first an	nd second order terms and th	ne descriptions a	s aiven in 11-08-1165-	Bumiller, (George		Research In N	lotion	
07-000	p-timing-informa	tion-element.doc		3 given in 11-00-1100	Comment	Туре Т	R	Comment Status X		
Proposed I	Response	Response Status O			Identi (OUI-	cal text to t 36 and IAB	hat in 7 3) public	7.3.2.26 "The IEEE currently c unique organization identified	assigns both 24 ers."	I-bit (OUI) and 36-bit
Decline	a - Declinea - se	96 11-09/050512			Suggeste	dRemedy				
					A star text is would	ndard shou inappropri also apply	ld defin ate in a , were	e an item _once Then refe a standards. Remove it. Com it to be left.	r to that location ment about the	n. This use of identical phrasing (re 7.3.2.26)
					Proposed	Response		Response Status 0		

Counter - Counter. Text to be removed but refer to 7.3.2.26 for definition of the field.

C/ 07 SC 7.4.5

CI 07	SC 7.4.5	P9	L1	# 151077	CI 07	SC 7.4.5	P 9	L14	# 144138		
Montemurro	o, Michael	Research in Mo	tion		Stephens	on, Dave	Cisco				
Comment 7 By mak receive	<i>Type</i> TR sing the OUI variation of the observed states of the obs	Comment Status X able (as well as the Vendor-sp arse the action frame header. /	ecific content) Also, by accor), it is impossible for the nodating different	Comment The c frame	<i>Type</i> TR hanges to the v has no way of	Comment Status X endor specific action frame ma knowing the length of the organ	ake it un-parsabl nizational identifi	e. The receiver of this er.		
length (can col	OUI's in this mar lide depending o	ner, there is now a possibility in the contents of the two fields	that vendor-sp	pecific action frames	Suggeste	dRemedy					
Suggested	Remedy				Add a imple	a new vendor sp mentations won	ecific action frame having a 36 't be affected by this change.	bit organization	al identifier so legacy		
Either o OUI (lik	create a new ven ke FF-FF-FF), wi	dor-specific action to address th an OUI length field, followed	OUI length >	3 or use an unassigned n the vendor-specific IE.	Proposed	Response	Response Status O				
Proposed F	Response	Response Status 0			Decili	ied - See respo	nse lo CID 96				
Counte	r - Counter. See	e CID 50.			<i>Cl</i> 07 Perahia, E	SC 7.4.5 Eldad	P 9 Intel	L18	# 144140		
<i>CI</i> 07 Durand, Ro	SC 7.4.5 ger	Р 9 RIM	L1	# 151076	Comment	Type TR	Comment Status X				
Comment T	Type TR	Comment Status X			Show	"3 or 5" (not "j") as the field length for OUI in H	-igure 7-101.			
By mak	king the OUI varia	able (as well as the Vendor-sp	ecific content)), it is impossible for the	Suggeste	dRemedy					
receive	r to be able to pa	arse the action frame header.	Also, by accor	modating different	See o	comment and fix	associated text reference to (j).			
can col	lide depending o	in the contents of the two fields		Decine action frames	Proposed	Response	Response Status O				
Suggested	Remedy				Declined - While currently the IEEE-RA has only extended the length of organizationally						
Either o OUI (lik	create a new ven (e FF-FF-FF), wi	dor-specific action to address th an OUI length field, followed	OUI length >	3 or use an unassigned n the vendor-specific IE.	to exceed a 5-octet length. The proposed amended text is forward compatible in this regard.						
Proposed F	Response	Response Status O									
Counte	r - Counter. See	e CID 50.									
C/ 07 Malarky Ala	SC 7.4.5	₽ 9 Mark IV IVHS	L14	# 151082							
Comment 7 Delete	<i>Type</i> ER this sentence. C	Comment Status X	d in 7.3.1.21.								
Suggestedl As per	R <i>emedy</i> comment										
Proposed F	Response	Response Status 0									

Counter - Counter: remove the first "shall", say "and is" instead of the second "shall". Also, underline the text to be inserted.

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

C/ 07 SC 7.4.5 Page 18 of 34 17/07/2009 11:35:53

CI 07	SC 7.4.5	P 9	L 27	# 144142	C/ 09	SC 9.8.1	P10	L 34	# 144153
Myles, Ar	ndrew	Cisco			Roy, Rich	ard	SRA		
Commen	t Type TR	Comment Status X			Comment	Type TR	Comment Status X		
The t speci	ext provides a m fies whether the	nechanism to specify 5 octet 0 field is 3 or 5 octets.	OUI's, whereby the	e first three octets	The te doma notior	ext in this subcla in information is o of "known locat	use of 802.11-2007 needs to be handled when communicating o tion" and the regulations that app	updated to outside of a E oly thereto n	clarify how regulatory 3SS. In particular, some eeds to be added.
It is n lengtl * If it	ot clear whether h of 5 octets is g is then the drfat	r or not the method for using t Jobally known. has effectively succeeded in	he first three octe creating a 2 octet	is to specify a field OUI, which is clearly	Suggeste Make	dRemedy the suggested o	change.		
* If it longe	ery userui is not then it wo r Vendor specifi	oudl have been better for the c	owner of the 3 oct	et OUI to just use a	Proposed Declir	Response ned - Declined.	Response Status O Not clear why this needs to be d	one.	
The b	oottom line is that	at this featrures appears to be	ill thought out		C/ 09	SC 9.9.1.2	P 10	L 29	# 151087
Suggeste	dRemedy				Engwer, D	Darwin	Nortel Networks	6	
Remo	ove the 5 octet 0	OUI capability			Comment	Type ER	Comment Status X		
Proposed	l Response	Response Status 0			"broa	dcast/multicast f	rames" is a non-standard IEEE 8	802 term.	
Decli	ned - See respo	nse to CID 93			Suggeste	dRemedy			
C/ 07	SC 7 5	Pq	/ 20-5	# 125243	Chan	ge to "group add	Iressed frames"		
Stephens	on, Dave	Cisco	-200	1/ 120240	Proposed	Response	Response Status 0		
Comment As fa perm	<i>t Type</i> TR r as I can tell fro itted to transmit	Comment Status X m reading 802.11p-d4.0, a S or receive management actio	TA in WAVE Moden frames.	e should not be	Declir in sub IEEE IEEE	ned - Text chang oclause 3.18 of II Std 802.11-2007 stds. Perhaps t	ed to: broadcast or multicast. N EEE Std 802.11-2007. "multicas 7. In addition, the terms are defi his comment should better be a	lote- "broadc t" is defined ined in IEEE addressed to	ast address" is defined in subclause 3.87 of Std 100 - dictionary for TGmb. In IEEE Std
Suggeste	dRemedy				802.1	1-2007 there are	e 72 Instances of "broadcast/mul	ticast".	
Add a mode	a row in the table STA cannot tra	e for management action fram Insmit or receive them.	es and annotate s	same to show WAVE	<i>CI</i> 09 Engwer, D	SC 9.9.1.2 Darwin	P 10 Nortel Networks	L 30	# 151088
Proposed Decli	<i>Response</i> ned - REJECT:	Response Status O 7.5 was removed as of 11n D	5.0		Comment "broa	<i>Type</i> ER dcast/multicast f	Comment Status X rames" is a non-standard IEEE 8	802 term.	
<i>CI</i> 09 Roy, Rich	SC 9.1.3.1 hard	<i>P</i> 10 SRA	L 22	# 144152	Suggeste Chan	<i>dRemedy</i> ge to "group add	Iressed frames"		
Comment The t parar	<i>t Type</i> TR ext in this subcla neter sets are h	Comment Status X ause of 802.11-2007 needs to andled outside the context of	be updated to cla a BSS, specificall	rify how EDCA y paragraph 3.	Proposed Declir	Response ned - See CID 87	Response Status O 7 Resolution.		
Suggeste Add o	dRemedy	aragraph 3 of the base docum	ent.						
Proposed	Response	Response Status O							
Decli	ned - Declined.	Not clear why this needs to b	e done.						

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

C/ 09 SC 9.9.1.2 Page 19 of 34 17/07/2009 11:35:53

IEEE P802.11p D7.0 Wireless Access in Vehicular Environments (WAVE) com	nments
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C/ 09 SC 9.9.1.2 Engwer, Darwin	P10 Nortel Networks	L 31	# 151089	C/ 10 SC 10.3 Roy, Richard	P11 SRA	L11	# 144162
Comment Type ER "broadcast/multicast fr SuggestedRemedy Change to "group add	Comment Status X rames" is a non-standard IEEE 8 ressed frames"	02 term.		Comment Type TR The SET and INC TS replaced. There wer requesting explanation time reference distrib	Comment Status SF timer primitives were the no comments suugges on. These primitives pro bution mechanism enabl	X removed unnecessari stion they had to be re ovide very useful functi ed by the TA frame an	ly and should be moved; only comments ionality in the external id the TIE.
Proposed Response Declined - Declined - " 2007. "Multicast" is de	Response Status O 'broadcast address" is defined in fined in subclause 3.87 of IEEE	subclause 3.13 Std 802.11-200	8 of IEEE Std 802.11-)7.	SuggestedRemedy Restore the SET and two years. The expla	I INC TSF timer primitive	es as they were in D5. use to be added is fou	0 and earlier going back und in 11-08-1165-07-
C/ 09 SC 9.9.1.2 Roy, Richard Comment Type TR	P10 SRA Comment Status X	L 44	# 144154	Proposed Response Declined - Declined. arguments for this ar	Response Status "Roll-over" is not a prot en't clear.	O blem given proper impl	lementation. Other
The text in this subclar are handled outside th SuggestedRemedy Clarify, in paragrapoh response framaes sen	use of 802.11-2007 needs to be the context of a BSS, specifically p 2, how TXOP limits are set wher iding EDCA parameter sets.	updated to clar paragraph 2. h there are no E	ify how TXOP limits Beacon or Probe	Cl 10 SC 10.3.29 Malarky, Alastair Comment Type ER Provide the 4th row of	0.3.2 P13 Mark I' Comment Status of the table.	<i>L</i> 25 V IVHS X	# <u>151114</u>
Proposed Response Declined - Declined.	Response Status O Not clear why this needs to be do	one.		SuggestedRemedy As per comment			
C/ 09 SC 9.9.1.3 Stephenson, Dave	P 10 Cisco	L 37	# 151105	Proposed Response Declined - The VSIE	Response Status row has not changed. F	O From experience it is b	petter to NOT include
Comment Type TR Add the phrase, "In an element undefined in I	Comment Status X infrastructure BSS" leaves the u BSS operation.	usage of the ED	DCA parameter		so notice for blanky.		
SuggestedRemedy Define proper usage ir	n IBSS operation.						
Proposed Response	Response Status 0						

Declined - Declined. See CID 63 (regarding 7.3.2.29)

C/ 10 SC 10.3.29.3.2

C/ 10	SC 10.3.42.1.2	P17	L 20-5	#	125286	<i>Cl</i> 1
Stephenson,	Dave	Cisco				Roy

Comment Type TR Comment Status X

This primitive does not define what Beacon interval to use in an On-demand beacon. The beacon interval is a required field for any beacon frame and thus this information must be provided. The text in 10.3.42.1.4 suggests that the receipt of this primitive causes a single beacon frame to be transmitted.

If this is the case, then I don't see a way to indicate a non-repetitive beacon field (clause 7.3.1.3 doesn't define a way to specify a non-repeated beacon). Legacy STAs may not be able to interpret a non-repetitive beacon frame (e.g., when TBTT is undefined). If so, this is a backwards compatibility issue that needs to be resolved.

SuggestedRemedy

Add text to specify the beacon interval and describe how legacy STAs will be compatible with an on-demand beacon.

Proposed Response Response Status O

Counter - Removed On-demand beacon and therefore clauses 10.3.42

Cl 10	SC 10.3.42.1.4	P18	L 15-1	# 125299
Stephenson,	Dave	Cisco		

Comment Type TR Comment Status X

The text states, ". BSS or WAVE BSS by transmitting an On-Demand beacon frame". This text is imprecise.

SuggestedRemedy

Clarify the text by stating whether this is exactly 1 beacon frame (i.e., TBTT is undefined) or a short sequence of beacon frames or something.

Proposed Response Response Status **O**

Counter - Removed On-demand beacon and therefore clauses 10.3.42

C/ 10	SC 10.3.9.1.4	P11	L14	# 151092
Roy, Richard	1	SRA		

Comment Type **TR** Comment Status **X**

Text reads: "If dot110CBEnabled is set to TRUE and if the SetDefaultMIB parameter is set to FALSE, MAC operation shall resume in less than 2 TU after the STAAddress parameter is changed." and now places a timing performance requirement on a MIB variable that is meant to indicate an added communication capability. Furthermore, it begs the question, what if the MIB variable is FALSE? It doesn't seem logical to to condition a time constraint on a dynamic variable that has nothing to do with the implementation of the state change.

SuggestedRemedy

Remove the conditioning on the OCB MIB variable since the speed with which the MAC reset is accomplished should be independent of whether or not the STA can communicate outside the context of a BSS. If necessary, e.g. for backward compatibility, make this optional and add a mechanism for making it so in the PICS. Make a similar change in 11.19 where a similar statement is made.

Proposed Response Response Status O

Declined - Declined. The conditioning was requested by a previous commenter on a previous ballot.

C/ 10	SC 10.3.9.1.4	P 12	L 28	# 125263
Roy, Richard		SRA		

Comment Type TR Comment Status X

WAVE is not a separate "mode" of operation of a STA. The WAVE amendment provides additional specifications that allow STAs to communicate (i.e., send data, management, and control frames) outside the context of any BSS.

SuggestedRemedy

Replace the inserted text with "For WC STAs operating outside the ocntext of a BSS, if the MIB attributes are not being set to their default values, MAC operation shall resume in less than 2 TUs after the STAAddress parameter is changed."

Proposed Response Response Status **O**

Counter - COUNTER: ACCEPT IN PRINCIPLE New wording reflects the intent of this suggestion.

C/ 10 SC 10.3.9.1.4 Page 21 of 34 17/07/2009 11:35:53

Amam, Keith Pelycon Inc. Stephens, Adria Intel Comment Type TR Comment Status X Stephens, Adria Intel Comment Type TR Comment Status X Comment Status X Sugasted/Remody More to disband the 802.11p task group and unanimously adopt the motion. Proposed Response Response Status O Counter - C	C/ 11 SC 11.18	P 20	L 49	# 125319	C/ 11	SC 1	11.19	P 17	L11	# 144182	
Comment Type TR Comment Status X This clause makes several tattements which inply that devices operating in WAVE, and that the two of these should not cross (statuments such as 'A station operating in WAVE, and that the two of these should not cross (statuments such as 'A station operating in WAVE is really something different from 80.11. When dot10CBEnabled is false a STA shall not transmit data frames outside the context of a BSS.' SuggestedRemedy Move to disband the 802.11p task group and unanimously adopt the motion. Proposed Response Status 0 Counter - COUNTER While we do not agree with the suggested remedy, we agree with the comment that a STA using in the Changes to clause 11.18 made to our draft as a result of the resolution in the EE 802.11-08/10247. Maxes to the status 1 and the draft. Counter - COUNTER While we do not accept this comment. Since X 'A STA in WAVE mode may communicate, outside the context of a BSS.' This statement seems to conflict with concept of alses 11.18 made to our draft as a result of the resolution in the EE 802.11-08/10247. Maxes the exeption throughout the draft. Comment Type TR Comment Sinus X O 'ASTA in WAVE mode may communicate, outside the context of a BSS.' This statement seems to conflict with concept of class 1 frames. SuggestedRemedy Remove the exeption throughout the draft. Proposed Response Status 0 O Counter - Counter, see CID 182 Counter - Counter, see CID 182 Counter - Counter, see CID 182 Counter - Counter, see	Amann, Keith	Polycom Inc.			Stephens,	Adrian		intel			
This clause makes several statements which imply that devices operating in a WAVE mode shall not transit on a method with times and a clause frame soutiside the context of a BSS. "When dottlOCEEnabled is false a STA shall not transmit data frames outside the context of a BSS." Suggested/Remedy Suggested/Remedy "Counter - COUNTER While we do not agree with the suggested remedy, we agree with the commenter that a STA using the WAVE capability to operate outside the context of a BSS." "Counter - COUNTER While we do not agree with the suggested remedy, we agree with the commenter that a STA using the WAVE capability to operate outside the context of a BSS." "Counter - Counter. If a SS 1: 11.8 Pool L51 # [25321] Adach, Tomoko To shiba Corporation # [25321] If [25321] If a BSS." SC 11.18 Pool L51 # [25321] Comment Type TR Comment Status X "When dottIOCEEnabled is false a STA shall not transmit data frames outside the context of a BSS." Suggested/Remedy Response Status 0 Counter - Counter. Counter - Counter. Contineer Type TR Comment Status X "When dottIOCEEnabled is false a STA shall not transmit data frames outside the context of a BSS." Contrant Type TR Comment Status X "Comment Status X" "When dottIOCEEnabled is false a STA shall not transmit data frames outside the context of a BSS." Contrant Type TR Comment Status X "When	Comment Type TR	Comment Status X			Comment	Туре	TR	Comment Status X			
share in dip in an infrastructure BSS of IESS*). This implies that WAVE is really something different from 802.11. SuggestedRemedy SuggestedRemedy Move to distand the 802.11 bits as group and unanimously adopt the motion. Proposed Response Response Status 0 Counter - COUNTER While we do not agree with the suggested remedy, we agree with the changes to clause 11.18 Made to out draft as a result to the resolution in IEEE 802.11-08/1024/7. Content Total as a result of the resolution in IEEE 802.11-08/1024/7. Content Total as a result of the resolution in EEE 802.11-08/1024/7. SuggestedRemedy Remove the exeption throughout the draft. Proposed Response Response Status 0 Content Total as a result of the resolution in IEEE 802.11-08/1024/7. will make operation more clear to the comment. SuggestedRemedy Remove the exeption throughout the draft. Proposed Response Status 0 Counter - Countert Status X "Wave to discus X is a robable comment, since this "exception" is actually the fundamental change we need, we hope the changes made to our draft, specifical y as a result of the resolution in EEE 802.11-08/1024/7. will make operation more clear to the comment. Comment Type TR Comment Status X "MAC subleyer synchronization in terefunder for a STA operating in a WAVE BSS." Why the vad STA know which information is new or od? SuggestedRemedy Response Response Status 0 Counter - This comment is considered vertance by events' (OBE) with the passing of the motion in 1.00-1024/07/000p-no-wbss-no-baccon-comment-resolution. Requine synchronization and the updated PRO2.11 p	This clause makes sev mode of operation are t two of these should not	eral statements which imply that on not really doing 802.11, but instea t cross (statements such as "A statements such as "A statements such as "A statements such as "A statements")	devices operatin d are doing WA ation operating ir	g in a WAVE VE, and that the n WAVE mode	"When dot11OCBEnabled is false a STA shall not transmit data frames outside the contex of a BSS."						
SuggestedRemedy Move to disband the 802.11p task group and unanimously adopt the motion. Proposed Response Response Status 0 Counter - COUNTER While we do not agree with the suggested remedy, we agree with the comment that a STA using the WAVE Eapsability to operate outside the context of a BSS images and undark as a result of the resolution in IEEE 802.11-04/102477. C1 11 SC 11.18 P20 L51 # 125321 Adachi, Tomoko Toshiba Corporation Comment Type TR Comment Status X "A STA in WAVE mode may communicate - outside of the context of a BSS." Do not introduce such kind of behavior. It will be unable to manage. SuggestedRemedy Remove the exeption throughout the draft. Proposed Response Response Status 0 Counter - Counter. Counter - Counter, see CID 182 Counter - Counter, see CID 182 Counter - Counter, see CID 182 Connent Type TR Comment Status X "East 125371 Adachi, Tomoko Toshiba Corporation Counter - Counter, see CID 182 Counter - Counter, see CID 182 Connent Type TR Comment Status X "East 1.1.18" Proposed Response Response Status 0 Counter - Thic comment Is new ord? Comment Type TR Comment Status X Conter - Counter, the resolution in IEEE 802.11-08/1024/7, will make operation in so subcided	shall not join an infrastr different from 802.11.	ructure BSS or IBSS"). This impli	es that WAVE is	s really something	"Outside the context of a BSS" is not defined. Elsewhere it has been replaced with "when dot110CBEnabled is true", which makes no sense here.						
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Counter - Counter - Counter - In 5.2.11, the phrase "transmit data frames outside the context of a BS may also be a member of an infrastructure BSS as shown in the changes to clause 11.18 made to our draft as a result of the resolution in IEEE 802.11-08/102477. Counter - Counter - In 5.2.11, the phrase "transmit data frames outside the context of a BS transmitting a data frame. But will replace the text with that synonym. C11 SC 11.18 P20 L 51 # [25321] Adachi, Tomoko Toshiba Corporation Conter - Counter. In 5.2.11, the phrase "transmit data frames outside the context of a BSS transmitting a data frame. But will replace the text with that synonym. Conter - Tomoko Toshiba Corporation Comment Type TR Comment Status X "A STAI in WAVE mode may communicate. outside the context of a BSS." Do not introduce such kind of behavior. It will be unable to manage. SuggestedRemedy SuggestedRemedy Remove the exeption throughout the draft. Reports Response Status O Poposed Response Status O Counter - Counter, see CID 182 Conter - Tomoko Toshiba Corporation SCA Comment Type TR Comment Status X "Mach J, Tomoko Toshiba Corporation SCA Comment Type TR Comment Status X "Mach J, Tomoko Toshiba Corporation SCA Comment	Proposed Response	Response Status O			Proposed	Respon	se	Response Status 0			
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¹ A STA in WAVE mode may communicate . outside of the context of a BSS." Do not introduce such kind of behavior. It will be unable to manage. SuggestedRemedy Remove the exeption throughout the draft. Proposed Response Response Status O Declined - DECLINED While we cannot accept this comment, since this "exception" is actually the fundamental change we need, we hope the changes made to our draft, specifically as a result of the resolution in IEEE 802.11-08/1024r7, will make operation more clear to the commenter. CI 11 SC 11.18.3 P22 L7 # [125371 Adachi, Tomoko Toshiba Corporation Comment Type TR Comment Status X "MAC sublayer synchronization is not required for a STA operating in a WAVE BSS." Why? How do STAs know which information is not required for a STA operating in a WAVE BSS." Why? Require synchronization at MAC layer. Proposed Response Response Status O Counter - This comment is considered "overcome by events" (OBE) with the passing of the motion in 11-08-1024-07-000p-no-wiss-no-beacon-comment-resolution, doc. Please see this document and the updated P802.11p draft. Note in 11-08-1024-07-000p-no-wiss-no-beacon-comment-resolution, doc. Please see this document and the updated P802.11p draft. Note in a line this subclause intends to permit simultaneous operation of BSS and non-BSS links. Proposed Response Response Status O Counter - This comment is considered "overcome by events" (OBE) with the passing of the motion in 11-08-1024-07-000p-no-wiss-no-beacon-comment-resolution, doc. Please see this document and the updated P802.11p draft.	Comment Type TR	Comment Status X			"When dot110CBEnabled is false a STA shall not transmit data frames outside the context						
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TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

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11:35:53

C/ 11

SC 11.19

C/ 11 SC 11.19 Stephens, Adrian	P 17 intel	L13	# 144185	C/ 11 S Roy, Richard	C 11.19	<i>Р</i> 18 SRA	L 7	# 151127
Comment Type TR C "shall be regarded". Ah, J How do you test "regarding behaviour? With Best Regards, A.N.C SuggestedRemedy	Comment Status X im me lad, I left my rega y". What do you really m Commenter	arding irons behin ean in terms of te	d - can I borrow yours? stable normative	Comment Type This clause field set to in a STA, SuggestedRem Remove th feature) ca Proposed Resp	 TR (and the cl only one va nedy restriction n be implem ponse 	Comment Status X ause 5 description) restricts C lue, and does not allow BSS a on the Address 3 field so tha nented . Response Status O	DCB data frame and OCB links t MAC forwardi	es to having the Address to exist simultaneously ing (a very valuable
Proposed Response R Counter - Counter. Delete dot110CBEnabled when is	Response Status O the text. The procedure	for how to "regards	d" a STA when	Declined - by TGp. C/ 11 S	Declined. T	his was previously agreed-up	on and is the p	revailing direction given # 151128
CI 11 SC 11 19	P 17	/ 17	# 144187	Roy, Richard		SRA		
Stephens, Adrian	intel	211	<i>π</i> 144107	Comment Type	TR	Comment Status X		
Comment Type TR	Comment Status X			This clause and does n	e restricts O ot allow BS	CB data frames to having the S and OCB links to exist simu	Address field s Itaneously in a	set to only one value, a STA,
"Whenever MAC and PHY parameters are changed, M appropriate MIB attributes in less than 2 TU This statement has two pro 1. It is made, independen implementations of non-11 2. It is too general. Which mean?	sublayer /AC and PHY sublayer of " bblems: t of OCBEnabled - i.e. ap p devices. i.e. it may ma MIB variables are being	operation shall res oplies to all future ake existing devic changed? What	sume with the and past es non-compliant. does "shall resume"	SuggestedRem Remove th capability to because it' dot110CBI need to dis surrounding neither of v PICS, suita	nedy e restriction o have, ther s not testab Enabled car tinguish OC g the thinkin which are us ubly named	on simultaneous OCB and B e are no technical reasons wh le reliably for a variety of reas (probably) be eliminated from B from BSS operations. This ig that 11p is introducing a ne eful constructs (hence the con variable can be inserted.	SS operation s ny it can not be ons. In accom n the draft sinc will also elimin w STA "state" nfusion). Wher	ince it's a valuable accomplished, and plishing this, e there is no longer a ate the confusion or operational "mode", e necessary for the
This is were too look. If you				Proposed Resp	oonse	Response Status 0		
i nis is way too lazy. If you	i need specific benavioui	r, speciry it.		Declined -	Declined. T	his was previously agreed-up	on and is the p	revailing direction given
Limit to 11n devices Sno	cify which MIR variables	are included in th	his Specify what	by IGp.				
behaviour is implied by "sh	all resume". Or remove	e the cited text.						
Proposed Response R	Response Status O							

Counter - Counter: limit to dot110CBEnabled set to TRUE.

C/ 11 SC 11.19

C/ 11	SC 11.a	P 20	L 46	# 141154
Rov. Rich	nard	SRA		

Comment Type TR Comment Status X

The first paragraph of 11.a contains language that prohibits functionality that should be allowed.

SuggestedRemedy

Replace the first paragraph with: "A STA in which dot110CBEnabled is set to true may transmit and receive (i.e., exchange) data frames outside of the context of a BSS, and may do so without first synchronizing or employing scanning or MAC sublayer authentication or association procedures. In situations where scanning has not been performed, the SME of a STA capable of and intending to exchange data frames with other such STAs outside the context of a BSS will initially configure the PHY with parameters (frequency, bandwidth, data rate, etc.) known a priori via mechanisms outside the scope of this standard (see 5.2.2a). A STA that communicates outside the context of a BSS shall use only one EDCA parameter set for accessing the medium on the current channel. The EDCA parameter set used outside the context of a BSS is either the default EDCA parameter set specified in table 7-37a or it is set by the SME in dot11EDCATable. A STA may be a member of a BSS. STAs that do not have dot110CBEnabled defined operate as if dot110CBEnabled were set to false."

Proposed Response

Response Status O

Counter - Counter. This comment includes more detailed initialization information that has been incorporated in the text in this submission, but asserts a capability to exchange infrastructure BSS frames while dot110CBEnabled is true that was not the intent of the majority of the TGp group when the MIB attribute was defined.

C/ 11	SC 11.a.1	P 21	L 6	# 160
Roy, Richa	rd	SRA		

Comment Type TR Comment Status X

This subclause should describe how the timing information is used in addition to how the timestamp is generated.

SuggestedRemedy

Remove subclasue 11.a.1 and replace it with the following subclause: " 11.6.2a Use of the Timing and Information management frame for distributing time from an external clock The main purpose of the Timing and Information management frame is to provide a mechanism whereby a STA can send to other STAs sufficient information in a single management frame to allow the receiving STAs to estimate the time being kept by an external clock (other than the TSF timer) on the transmitting STA. This is accomplished using the timestamp parameter in the transmitted frame in conjunction with the Timing Information Element (TIE) which contains the information necessary to adjust the TSF timer of the transmitting STA to match the output of the transmitting STAs external clock. A STA that is transmitting a Timing and Information frame shall set the value of the timestamp parameter to the value of the STA's TSF timer at the time that the data symbol containing the first bit of the timestamp is transmitted to the PHY plus the transmitting STAs delays through its local PHY from the MAC-PHY interface to its interface with the WM. A Timing and Information frame is generated by a STA's MLME in response to receiving an MLME-TIMING INFO request from the STA's SME. After generating the frame, the MLME returns an MLME- TIMING INFO.confirm to the SME."

Proposed Response Response Status **0**

Counter - Counter. Remove subclause 11.a.1. But setting the Timestamp is discussed in 11.6a.

C/ 17	SC 17.3.10.2	P 23	L 1	# 125394
Inoue, Ya	asuhiko	NTT		

Comment Type TR Comment Status X

Table 17-13a "WAVE enhanced receiver performance requirements" specifies requirements only for adjacent channel rejection and non-adjacent channel rejection for each combination of modulation and coding scheme.

There should be requirements for the minimum receiver sensitivity for each MCS depending on the channel bandwidth.

SuggestedRemedy

Add minimum receiver sensitivity requirements.

Proposed Response Response Status **O**

Counter - Agree in principle. Note TGp is not changing the sensitivities already defined. See Table 17-13. TGp will add the sentence: "The corresponding minimum receiver sensitivities for each modulation and coding rate are the same as in table 17.13" to the end of the paragraph in 17.3.10.2 and 17.3.10.3 in 802.11p D 4.0.

Cl	17	Page 24 of
SC	17.3.10.2	17/07/2009

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Fischer, Matthew	Broadcom	L10	# 125399	C/ All Roy, Richard	SC AII	2100 SRA	L 100	# 125477
Comment Type TR Con Adjacent channel rejection req	nment Status X quirement seems too	stringent.		Comment Ty WAVE is	pe TR not a separate	Comment Status X e "mode" of operation of a	STA. The WAVE	amendment provides
SuggestedRemedy Reduce ACR requirement by a	about 10dB.			additiona and cont normal 8 having to	I specifications rol frames) out 02.11 function	s that allow STAs to comm tside the context of any BS ality, WAVE capable STAs	unicate (i.e., send S. For example, i can send data fra	l data, management, in addition to all the ames without first
Proposed Response Resp	ponse Status O	and de sum ant OO	0000 for further datails	SuggestedRe	emedv			
	on for Comment 395 a	and document 08-		Replace	"STAs in WAV	E mode" with "WC STAs"	and add a definition	on of WAVE capable
C/ 17 SC 17.3.8.8 Roy, Richard	Р 21 SRA	L 37	# 141169	STA (WC manager set to tru	C STA) as a S ⁻ ment frames or e. Also rewrite	TA capable of transmitting utside the context of a BSS the intro to reflect the cont	and receiving data 5. WC STAs have tents of the recom	a, control, and dot11WAVECapable mended change.
Comment Type TR Con	nment Status X			Proposed Re	sponse	Response Status O		-
WAVE adds a single temperat degC. This is automotive tem and should be included as opt temperatures can be experien	ture range for automo perature grade 3 (AE ional automotive envi ced (for example on t	otive and outdoor C-Q100). Grade ironment temp rar the dashboards of	environments -40 to 85 es 2 and 1 are missing nges since such f cars sitting in the sun).	Counter motion ir this docu	- This commer 11-08-1024-0 Iment and the	nt is considered "overcome 17-000p-no-wbss-no-beaco updated P802.11p draft.	by events" (OBE) n-comment-resolu) with the passing of the ution.doc. Please see
SuggestedRemedy				C/ AII	SC AII	P 25	L 41	# 141184
Add grades 1 (-40 to 125 deg0	C) and 2 (-40 to 105 c	degC) from AEC-C	Q100 to the clause and	Roy, Richard		SRA		
the PICS and make them optic	onal.			Comment Ty	pe TR	Comment Status X		
Proposed Response Rose	oonse Status O				riable (dot115		aing for the condition	dente a state s and see al
Declined - Declined after exter for "Automotive" environments	nsive discussion. Pre	esent Type 4 base	ed on SAE standards	requirem	ents for 5.9GH d rx sensitivitie	ls mis Iz operation such as the ex es, and the tx masks for 5.9	sing for the condit tended temperatu)GHz.	ire ranges, the optional
Declined - Declined after exter for "Automotive" environments C/ A SC A.4.4.1	nsive discussion. Pres P 21	esent Type 4 base	ed on SAE standards # 151150	requirem increase SuggestedRe	ents for 5.9GH d rx sensitivitie emedy	Iz operation such as the ex s, and the tx masks for 5.9	sing for the condition stended temperatu 9GHz.	ioning of the optional ire ranges, the optional
Declined - Declined after exter for "Automotive" environments Cl A SC A.4.4.1 Malinen, Jouni	nsive discussion. Pres	esent Type 4 base	ed on SAE standards # 151150	A MIB Va requirem increase SuggestedRe Add the I 5 9GHz	ents for 5.9GH d rx sensitivitie emedy MIB variable de	and the tx masks for 5.9 ot115.9GHzImplemented s	o that the PICS ca	an have all the optional
Declined - Declined after exter for "Automotive" environments C/ A SC A.4.4.1 Malinen, Jouni Comment Type TR Con	P21	esent Type 4 base	ed on SAE standards # 151150	A MIB va requirem increase SuggestedRe Add the I 5.9GHz s Proposed Re	ents for 5.9GF d rx sensitivitie emedy MIB variable de stuff conditione	at 2007 and the tx masks for 5.9 ot115.9GHzImplemented s ad on some MIB variable.	o that the PICS ca	an have all the optional
Declined - Declined after exter for "Automotive" environments Cl A SC A.4.4.1 Malinen, Jouni Comment Type TR Corr How can PC37 be optional but if CF8=Yes? Shouldn't the sub	P21 P21 mment Status X t its sub-entries PC37 p-entries be condition	<i>L</i> 45 <i>L</i> 45 7.1, PC37.2, and f al on PC37?	ed on SAE standards # 151150 PC37.3 be mandatory	A Milb Va requirem increase SuggestedRe Add the I 5.9GHz s Proposed Re Declined telecon	ents for 5.9GH d rx sensitivitie emedy MIB variable de stuff conditione esponse - Declined: we	add a straight for the	the conduct tended temperatu oGHz. to that the PICS ca	an have all the optional and have all the optional and have all the optional and have all the 1/15/09
Declined - Declined after exter for "Automotive" environments C/ A SC A.4.4.1 Malinen, Jouni Comment Type TR Com How can PC37 be optional but if CF8=Yes? Shouldn't the sub SuggestedRemedy	P21 P21 mment Status X t its sub-entries PC37 p-entries be condition	<i>L</i> 45 <i>L</i> 45 7.1, PC37.2, and F al on PC37?	ed on SAE standards # <u>151150</u> PC37.3 be mandatory	A MIB va requirem increase SuggestedRe Add the I 5.9GHz s Proposed Re Declined telecon	Analysia (1997) ents for 5.9GF d rx sensitivitie emedy MIB variable di stuff conditione sponse - Declined: we	addition such as the exist, and the tx masks for 5.9 ot115.9GHzImplemented set on some MIB variable. <i>Response Status</i> O decided not to add dot115	5.9GHzImplement	an have all the optional ed in the 1/15/09
Declined - Declined after exter for "Automotive" environments C/ A SC A.4.4.1 Malinen, Jouni Comment Type TR Com How can PC37 be optional but if CF8=Yes? Shouldn't the sub SuggestedRemedy Replace "PC37" with "* PC37" column for PC37. Replace "Cf	P21 P21 mment Status X t its sub-entries PC37 o-entries be condition C. Replace "O" with "C F18:M" with "PC37:M	<i>L</i> 45 <i>L</i> 45 7.1, PC37.2, and F al on PC37? CF18:M" (or CF18 " in PC37.1, PC37	# <u>151150</u> # <u>151150</u> PC37.3 be mandatory :O?) in the Status 7.2, and PC37.3 rows.	A Milb Va requirem increase SuggestedRe Add the I 5.9GHz s Proposed Re Declined telecon Cl Annex Ecclesine, Pe	Anable (dorr 15.9GF ents for 5.9GF d rx sensitivitie emedy MIB variable di stuff conditione sponse - Declined: we SC Annex A eter	.9GH2Implemented) is mis Iz operation such as the example, and the tx masks for 5.9 ot115.9GHzImplemented s od on some MIB variable. Response Status 0 e decided not to add dot115 P25 Cisco Syste	bo that the PICS ca 5.9GHzImplement <i>L</i> 51 ems	an have all the optional and have all the optional and the 1/15/09 # 151153
Declined - Declined after exter for "Automotive" environments CI A SC A.4.4.1 Malinen, Jouni Comment Type TR Control How can PC37 be optional but if CF8=Yes? Shouldn't the sub SuggestedRemedy Replace "PC37" with "* PC37" column for PC37. Replace "Cf Proposed Response Resp	P21 P21 mment Status X t its sub-entries PC37 b-entries be condition C. Replace "O" with "C F18:M" with "PC37:M boonse Status O	<i>L</i> 45 <i>L</i> 45 7.1, PC37.2, and F al on PC37? CF18:M" (or CF18 " in PC37.1, PC37	ed on SAE standards # <u>151150</u> PC37.3 be mandatory :O?) in the Status 7.2, and PC37.3 rows.	A Milb Va requirem increase SuggestedRe Add the I 5.9GHz s Proposed Re Declined telecon C/ Annex Ecclesine, Pe Comment Ty	Anable (dorr 15.9GF ents for 5.9GF d rx sensitivitie emedy MIB variable du stuff conditione sponse - Declined: we SC Annex A eter pe TR	Accomment Status X	5.9GHzImplement	an have all the optional red in the 1/15/09 # 151153
Declined - Declined after exter for "Automotive" environments Cl A SC A.4.4.1 Malinen, Jouni Comment Type TR How can PC37 be optional but if CF8=Yes? Shouldn't the sub SuggestedRemedy Replace "PC37" with "* PC37" column for PC37. Replace "Cf Proposed Response Resp Declined - PC37 does not refe	P21 P21 mment Status X t its sub-entries PC37 p-entries be condition C. Replace "O" with "C F18:M" with "PC37:M ponse Status O er to a specific PHY, v	<i>L</i> 45 <i>L</i> 45 7.1, PC37.2, and I al on PC37? CF18:M" (or CF18 " in PC37.1, PC37 whereas PC37.1,	ed on SAE standards # 151150 PC37.3 be mandatory :O?) in the Status 7.2, and PC37.3 rows. PC37.2, and PC37.3	A Milb Va requirem increase SuggestedRe Add the I 5.9GHz s Proposed Re Declined telecon C/ Annex Ecclesine, Pe Comment Ty OF1.7 St	Anable (dorr 15.9GF ents for 5.9GF d rx sensitivitie emedy MIB variable de stuff conditione esponse - Declined: we SC Annex A eter pe TR tatus should be	Accord and the transformented is missing the examplemented is missing to a stress, and the transformed states and the transformed states of the examplemented state of the examplement o	5.9GHzImplement <i>L</i> 51 ems	an have all the optional eed in the 1/15/09 # 151153 F17(end underscore):M
Declined - Declined after exter for "Automotive" environments Cl A SC A.4.4.1 Malinen, Jouni Comment Type TR Corr How can PC37 be optional but if CF8=Yes? Shouldn't the sub SuggestedRemedy Replace "PC37" with "* PC37" column for PC37. Replace "Cf Proposed Response Resp Declined - PC37 does not refe are dependent on CF18 which	P21 P21 mment Status X t its sub-entries PC37 p-entries be condition Replace "O" with "C F18:M" with "PC37:M ponse Status O er to a specific PHY, v t its the MIB variable	<i>L</i> 45 <i>L</i> 45 7.1, PC37.2, and F al on PC37? CF18:M" (or CF18 " in PC37.1, PC37 whereas PC37.1, a to CF17.	ed on SAE standards # 151150 PC37.3 be mandatory :O?) in the Status 7.2, and PC37.3 rows. PC37.2, and PC37.3	A Milb Va requirem increase SuggestedRe Add the I 5.9GHz s Proposed Re Declined telecon C/ Annex Ecclesine, Pe Comment Ty OF1.7 St SuggestedRe per comr	Anable (dorn 5.9GF ents for 5.9GF d rx sensitivitie emedy MIB variable di stuff conditione sponse - Declined: we SC Annex A eter pe TR tatus should be emedy nent	According to the second status of the second status	5.9GHzImplement <i>L</i> 51 ent underscore), C	tioning of the optional are ranges, the optional an have all the optional ted in the 1/15/09 # <u>151153</u> F17(end underscore):M
Declined - Declined after exter for "Automotive" environments Cl A SC A.4.4.1 Malinen, Jouni Comment Type TR SuggestedRemedy Replace "Cf Proposed Response Resp Declined - PC37 does not refe are dependent on CF18 which	P21 P21 mment Status X t its sub-entries PC37 p-entries be condition T. Replace "O" with "C F18:M" with "PC37:M ponse Status O er to a specific PHY, v t ites the MIB variable	L 45 L 45 7.1, PC37.2, and F al on PC37? F18:M" (or CF18 " in PC37.1, PC3 whereas PC37.1, o to CF17.	# 151150 # 151150 PC37.3 be mandatory :O?) in the Status 7.2, and PC37.3 rows. PC37.2, and PC37.3	A Milb Va requirem increase SuggestedRe Add the I 5.9GHz s Proposed Re Declined telecon C/ Annex Ecclesine, Pe Comment Ty OF1.7 St SuggestedRe per comm	Analie (dorr 15.9GF ents for 5.9GF d rx sensitivitie emedy MIB variable du stuff conditione esponse - Declined: we SC Annex A eter pe TR tatus should be emedy ment esponse	Acceleration such as the examplemented) is mis iz operation such as the examplemented is out115.9GHzImplemented is out115.	art underscore), C	tioning of the optional are ranges, the optional an have all the optional red in the 1/15/09 # <u>151153</u> F17(end underscore):M

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

C/ Annex SC Annex A

Cl AnnexSC Annex DP27L26# 141198Adachi, TomokoToshiba Corporation	C/ Annex I SC Annex I.2.3 P 33 L 52 # 125448 Roy, Richard SRA			
Comment Type TR Comment Status X dot11PHYType already contains "ht(7)". SuggestedRemedy Add "ht(7)" in line 26. Add "HT=07" in line 33.	Comment Type TR Comment Status X The section is intended to provide default transmit spectral masks for various classes (max tx power levels) of operation. They do not specify tx spectrum. Furthermore, without a res BW specified, and without a specification as to how to apply the masks to measured tx spectra, the specifications are not very useful.			
Proposed Response Response Status O Counter - Deleted changes to dot11PhyType and dot11PhyType2	SuggestedRemedy Change the text to read: "For operation in the 5.85-5.925GHz bands in the US, the following default transmit apartral marks apply." Add a rea RW with which the			
Cl AnnexSC Annex DP 27L 42# 141200Adachi, TomokoToshiba Corporation	measurements must be made, and describe how the masks are to be applied to the measured spectra so compliance can be unambiguously determined. In addition, D10.0 of 11v removes the first paragraph of L2.3 and replaces it with:"Transmit spectrum masks			
Comment Type TR Comment Status X Why do you need to define a new attribute "dot11PHYType2" and use that instead of dot11PHYType? If that is necessary for WAVE, the use should be limited. The change shown here will apply to all the cases.	defined in regulation are described here for information only, and are subject to cha revision at any time." Change this text to read: "The transmit spectrum masks give are those for the indicated regulatory domains and are provided for information only These masks are subject to change or revision at any time, and, in all circumstance relevant regulatory specifications must be mat "			
SuggestedRemedy Delete "dot11PHYType2". Or restrict its use to dot11WAVEEnabled=true. Reflect related changes in dot11PHYOperationComplianceGroup.	Proposed Response Response Status O Counter - Revised text proposed addresses the fact that some of the requirements are driven by technical reasons and should be normative.			
Proposed Response Response Status O Counter - Deleted changes to dot11PhyType and dot11PhyType2	C/ Annex J SC Annex J P 32 L 32 # 144226 Roy, Richard SRA			
C/ Annex SC Annex D P 28 L 6 # 141202 Adachi, Tomoko Toshiba Corporation	Comment Type TR Comment Status X Table J-2 should have a 30MHz channel set for the European allocation.			
Comment Type TR Comment Status X Why does all the 802.11 PHY have to include dot11TempType2?	SuggestedRemedy Add a 30 MHz channel set.			
SuggestedRemedy Restrict it to dot11WAVEEnabled=true. Proposed Response Response Status Declined - Declined: the 802.11 PHY contains dot11TempType, so it contains dot11TempType2	Proposed ResponseResponse StatusODeclined - This request was previously dealt with in resolution to LB125, and declined. To implement such a change requires not just an entry into a table in J, but also that the PHY characteristics for 30MHz channel spacing be defined. This request is outside the scope of TGp			

C/ Annex J SC Annex J

C/ Annex J SC Annex J	P 32	L37	# 151157
Perahia. Eldad	Intel		

Comment Type TR Comment Status X

If TGp is successful in the marketplace, future systems in the 5.9 GHz band will have great difficulty dealing with legacy TGp deployments on patially overlapping channels, just as TGn had difficulty dealing with patially overlapping 11b/g systems. The rationale that 5.9 GHz band is licensed and can be managed is not acceptable. Both 4.9 GHz and 3.65 GHz bands are licensed and TGj and TGy specified non-overlapping channels.

SuggestedRemedy

Disallow partial overlapping 20 MHz channels. Disallow partial overlapping 10 MHz channels. Refer to 802.11-2007, 802.11y, and 802.11n D10.0 as to how to properly define channel sets.

Proposed Response Response Status **O**

Counter - Counter. Change superscripted footnote "1" to "1,2" to Regulatory Classes 17 and 18 of Table J-1 (row 2 &3) and to Regulatory Classes 14 and 15 of Table J-2 (rows 2 & 3). After footnote 1 below Table J-2, add a footnote 2 which reads: "Within in the same Regulatory Class, the channels in use in any location shall be non-overlapping."

C/ Annex J SC Annex J Malarky, Alastair	Р 33 Mark IV IV	<i>L</i> 17 ′НS	# 151171
Comment Type TR	Comment Status X		
The channel set for reg the changes that were r	ulatory class 17 in Table nade between 11-09/048	J-2 should be delet 8r3 and 11-09/0488	ed. I do not agree with 3r4.
SuggestedRemedy			
Delete regulatory class	16 in Table J-2. Update	J.2.2	
Proposed Response	Response Status 0		
#122. The row with Re in the 5.475-5.7GHz IS with the .11 baseline.	gulatory Class 17 (20MH gulatory Class 17 (20MH M band due to LB144 cor	ss 16 (10MHz) has z) has been alignec nments on Draft 6.0	l with the .11a/n legacy With regard to aligning
C/ Annex J SC Annex J	P 33	L18	# 151172
Erceg, Vinko	Broadcom		
Comment Type TR Regulatory class 16 is i band.	Comment Status X ndicated in the bottom of	the table as corres	ponding to the 5.9 GHz
SuggestedRemedy Please correct, remove	superscript "1".		
Proposed Response	Response Status O		

Counter - Counter. Same as CID #123.

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

Cl	Annex	
SC	Annex	

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C/ Annex J SC Annex J	P33	L 38	# 151173
Roy, Richard	SRA		

Comment Type **TR** Comment Status **X**

40MHz channels were in D6.0 and have been removed in D7.0. There is no technical reason for doing so, and the inclusion of 40MHz channels could be very useful going forward in the 5.9 band. The argument for removal apparently arose from belief that the 802.11 single channel MAC/PHY standard is responsible for specifying how a system implementer might deploy an 802.11 system using mulitple channels. While implmentation of MAC/PHY functionality that allows the successful deployment of such systems is well within the scope of 802.11, the description of how this accomplished at the system level is informative at best, but in either case, well outside the scope of 802.11. In particular, it is up to those implementing the system to set the "rules of multichannel operation" and if overlapping channels are desirable, they should be implementable and allowed.

SuggestedRemedy

Reinsert the 40MHz channels in the channel sets as in D6.0.

Proposed Response	Response Status	0
Declined - Reject.	Same as CID #166.	

C/ Annex J SC Annex J	P33	L 4	#	151163
Kobayashi, Mark	Broadcom Corp			

Comment Type TR Comment Status X

(Ln 4-37) Defining 5 MHz increments for 20 MHz channels in the 5.9 GHz band may create problems with channels that are partially overlapping.

SuggestedRemedy

Please provide larger increments to address the partial ovelap issue.

Proposed Response Response Status **0** Counter - Counter, See resolution for CID #157

C/ Annex J SC Annex J P 33 L4 Erceg, Vinko Broadcom	# 151166	CI Annex J SC Annex J Ecclesine, Peter	P 37 Cisco Systems	L17	# 151177
Comment Type TR Comment Status X (Table J.2) Why was 40 MHz spacing removed from channel	102-138 operation?	Comment Type TR Co Table J.2 Regulatory class 10	omment Status X 6 is not in the 5.9 GHz b	and, and should	d not have footnote 1.
SuggestedRemedy Please justify or include 40 MHz spacing (It was present in the	e Draft 6.0)	SuggestedRemedy Delete footnote 1 from Regul	atory class 16.		
Proposed Response Response Status O Declined - Reject. Neither the FCC nor the ETSI EN 302571 the 5 85-5 925 GHz hand In the 5 475-5 75 GHz hand the 4	allow for 40MHz channels in 0MHz channels are defined in	Proposed Response Res Counter - Counter. Same as	sponse Status O CID #123.		
the 802.11 baseline. In addition, the 40MHz feature was dele on Draft 6.0, as both the co-existence mechanism and the rul 40MHz frames may be transmitted in the 802.11n draft do not AP is not used when the OCBEnabled MIB variable is TRUE. that CF17 and CF18 depend on CF6, CF8, CF10, and CF 11	Cl Annex J SC Annex J Ecclesine, Peter Comment Type TR Co Table J.2 Regulatory class 1	P 37 Cisco Systems omment Status X 7 should not have TPC a	L 27 and DFS Behav	# 1 <u>51178</u>	
C/ Annex JSC Annex JP 33L4Erceg, VinkoBroadcom	# 151164	SuggestedRemedy Delete Behaviors 3 and 4 from	m Regulatory class 17.		
Comment Type IR Comment Status X (Tab J.1, J.2) In 5.9 GHz band, 20MHz channels are defined i may create problems when channels are partially overlapping SuggestedRemedy Please address partial overlap issue by choosing larger increment Proposed Response Response Status	n 5 MHz increments. This nents, for example.	Counter - Counter. Superced in Draft 7.0. Both Regulatory for DFS and TPC. However, by CID #122. The row with F 3 and 4 included. The former Class 16. No change is nece	sponse Status O ded by CID #122. This c Classes 16 and 17 sho the row with Regulatory Regulatory Class 17 (20N Regulatory Class 17 ha ssary.	comment refers uld have had B Class 16 (10M /Hz) from Draft s been renumb	to Regulatory Class 16 ehavior Sets 3 and 4 Hz) has been deleted 7.0 has Behavior Sets ered as Regulatory
Counter - Counter. See resolution for CID #157.		C/ General SC General	P100	L1	# 141219
C/ Annex J SC Annex J P33 L4	# 151160	Ecclesine, Peter	Cisco Systems		
Perahia, Eldad Intel		Comment Type TR Co	mment Status X		
Comment Type TR Comment Status X If TGp is successful, future systems in the 5.9 GHz band will be	have great difficulty dealing	The scope of this amendmen context of a BSS" is beyond statement that is within scope	it is restricted to 5 GHz b the scope of the PAR, an e.	pands. The phra nd should be ch	ase "outside the nanged to some
dealing with patially overlapping 11b/g systems. The rational	s, just as 1 Gn had difficulty e that 5.9 GHz band is	SuggestedRemedy			
licensed and can be managed is not acceptable. Both 4.9 GH licensed and TGj and TGy specified non-overlapping channels	Rewrite this phrase using language that is clearly restricted to operation within the scope of the 802.11p PAR.				
SuggestedRemedy		Proposed Response Res	sponse Status O		
Disallow partial overlapping 20 MHz channels. Disallow partia channels. Refer to 802.11-2007, 802.11y, and 802.11n D10.0 channel sets.	al overlapping 10 MHz) as to how to properly define	Declined - See doc: 11-09-00	020 and response in CID	10.	
Proposed Response Response Status O					
Counter - Counter. See resolution for CID #157.					

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

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	D					"
Cl General SC General	P100 L1	# 141216	C/ General SC General	P100	L10	# 125463
Adachi, Tomoko	Toshiba Corporation		Amann, Keun	Polycom Inc.		
Comment TypeTRCI disagree with the resolution ballot.IEEE1609.4 covers the MAG WAVE.Why do the two, 802.11p ar layer? If WAVE wants to use be specified in 802.11p.SuggestedRemedy As in comment.Proposed ResponseRe Declined - The comment rel As a part of the response in other 802.11 implementation	Comment Status X ns to my comments, CIDs 481, 482 and C layer. It is not only for higher layers. A nd 1609.4, have to split the WAVE issue e 802.11, all the issues related to MAC esponse Status O lates a concern about interference within 08-0584, this is an implementation issue n) and the standard, and thus this amer	I 483, in the previous nd it is related to as in the same MAC and PHY layers should n overlapping systems. ie (shared with every idment, is not the place	Comment TypeTRComment TypeThere are several locations the TSF timer, with no explanation 802.11 network this information of frame transfer, power saving why this is necessary.SuggestedRemedySince there appears to be no r determine) remove all reference definitions in clause 10. Alterr possibly as an information annProposed ResponseRespDeclined - See note in 10.3.25 to help synchronize the TSF time	nment Status X roughout the document a sto why this is required in is required in order to g, etc. The based stand reason for this functiona ces to timer information natively, provide some e nex or clause. ponse Status O ic.1.3. "This command mer to external clock so	that discuss s ed. Under a n synchronize t dard provides lity (from what including the explanation as can be used b purces such as	etting and retrieving the formally operating he STAs for purposes clear explanations of t I am able to MLME interface to why this is required, by higher layer functions 5 UTC time from a GPS
to provide such explanations	s or usage guidance. See Document 09	-0185 for further details.				
Cl General SC General	P100 L1	# 144242		P100	L10	# 125462
Adachi, Tomoko	Toshiba Corporation		Amann, Keith	Polycom Inc.		
Comment Type TR C	Comment Status X		Comment Type TR Con	nment Status X		
I disagree with the resolution Reliability should be a key for with overlapping BSSs depe If there is a probability or exp The issue should be addres 802.11, 802.11p should be to <i>SuggestedRemedy</i> As in comment. <i>Proposed Response</i> Declined - We are neither at the channels. We are typical	n to my comment CID 216 in the previo eature to WAVE, but it is said that the s ends on implementation. pectation to do multi-channel operation, sed somewhere and as the access men the place. esponse Status O Itering nor undermining the basic 802.1 ally communicating STA to STA without	us ballot. olution to interference it is clear to be worse. chanism is based on 1 methods for accessing a BSS.	There appears to be no securi SuggestedRemedy Define a security mechanism f as I lack some of the knowledg the specification given the sec Proposed Response Resp Declined - Subclause 5.2.2a ir determined by upper layers, w security"	ty mechanisms for trans for use by WAVE. I car ge necessary to do so, urity concerns of todays <i>ponse Status</i> 0 n P802.11p/D4.0 specifi hich are also responsib	sport of data w not propose a but this seems s industry. es "The need le for system r	vithin a WAVE. I more specific solution I like a glaring hole in to enter WAVE mode is management and

C/ General SC General

C/ General SC General	P100	L17	# 125471
Fischer, Matthew	Broadcom		

Comment Type TR Comment Status X

There is an instance within 7.1.3.5.5 of how a behavior or restriction or allowance of something is described with reference to a STA being associated in a BSS, and you have noted that you need to add the instance of a STA operating in WAVE mode in order to ensure that a WAVE mode STA can also perform that particular action. I suspect that there must be dozens of other such instances of behavioral descriptions within the baseline that must similarly be updated.

SuggestedRemedy

Find and update any instances of behavior that a WAVE mode STA wishes to perform but for which the existing baseline language would not permit because of the qualification that a STA wishing to perform such behavior needs to be associated with a BSS or QBSS. One of my other comments addresses one of those instances.

Proposed Response Response Status O

Counter - See updated text in latest draft.

CI General SC General	P100	L 3	# 144244
Durand, Roger	RIM		

Comment Type TR Comment Status X

The "dot11OCBenabled" operation is poorly defined thru-out the 11p draft 6.0 doc. Relative to standards expectations for completeness relative to the basic concept of why we need to do this.

SuggestedRemedy

define "dot11OCBenabled" operation

Proposed Response Response Status O

Declined - See the definition and thurough description in 5.2.11.

C/ General SC General	P100	L 4	#	144245
Durand, Roger	RIM			-

Comment Type TR Comment Status X

The "dot11OCBenabled" operation is poorly defined thru-out the 11p draft 6.0 doc relative to operation outside of a BSS.

SuggestedRemedy

define "dot11OCBenabled" operation outside of a BSS

Proposed Response Response Status O

Declined - See the definition and thurough description in 5.2.11.

Cl General SC	General	P1	DO L5	; #	144246
Durand, Roger		RIM			
Comment Type	TR	Comment Status	x		
The "dot11OC to security rec	Benabled" juirements	operation is poorly	defined thru-out	the 11p draft 6.0	doc relative

SuggestedRemedy

define "dot11OCBenabled" security

Proposed Response Response Status **0**

Declined - TGp intentionally disabled link layer security when dot110CBEnabled is true. The 802.11 link layer security is incabable of satisfying the WAVE requirements.

C/ General SC General	P100	L 6	# 144247
Durand, Roger	RIM		

Comment Type ER Comment Status X

The overall 11p 6.0 document appears to have gone thru a labotomy relative to recent document revisions regarding details and why 11p is doing what it is doing. I believe 802.11p has moved the wrong way by removing basic needed details in order to comprehend what and why 11p exists as the present document now asks far more questions, then it answers. Simply removing entire portions of the document doesn't answer multiple previous technical comments.

SuggestedRemedy

Increase document detail so that someone skilled in the 802.11 art can read this document and understand what 11p is doing and why.

Proposed Response Response Status **O**

Declined - Clause 5.2.11 explains that the amendment defines a new capability for communicating data frames between STAs that are not members of a BSS. It notes the utility of this capability for "rapidly varying communication environments such as those involving mobile STAs where the interval over which the communication exchanges take place may be of very short-duration (e.g. measured in milliseconds)." Recognizing that this capability can be used in a variety of ways, members of the 802.11 WG have previously requested that the amendment not include information about applications that may wish to use the new capability. TGp believes that the amendment strikes an appropriate balance between providing important information to help a reader and avoiding details that may imply a narrow applicability or a specific implementation. Those who are interested in background material on DSRC technology and other WAVE standards can consult 11-07-2045.

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

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Cl General SC General	P100	L8	# 144249	Cl General SC General	Pii	L1	# 125482
Myles, Andrew	Cisco			Adachi, Tomoko	Toshiba Cor	poration	
Comment Type TR	Comment Status X			Comment Type TR	Comment Status X		
The current draft appears t 5.9GHz band and only use band.	to add nothing of value to is a few 802.11 features	o 802.11 devicee for devices opera	s operating outside the ating in the 5.9GHz	The multichannel operatic expected also in 802.11p operation should be cover	on is specified in 1609.4. I but the core information i red in 802.11p because it	t seems as thoug s missing from th is the item in the	gh such operation is ne draft. The channel e MAC.
Even worse, many of the c context of regular 802.11 c	hanges to the 802.11 sta levices more confusing t	andard make rea hat it already is.	ding the standard in the	SuggestedRemedy Specify the channel opera	ation if some changes are	intended. Do no	t stray from the original
SuggestedRemedy				802.11 channel operation	. Do not mandate control	and service char	inels.
I know this is an old comm becaise there is only nega	ent, but it is now time to tive value from it being d	refine 802.11p a efined as an ame	s a separate document endment.	Declined - See explanatio	Response Status O n in document 08-0586r1		
Proposed Response F Declined - See Document	Response Status O 09-0619r02			C/ I SC I.1 Perahia, Eldad	P 33 Intel	L12	# 125439
<i>Cl</i> General <i>SC</i> General Adachi, Tomoko	Р іі Toshiba Corp	L1 poration	# 125481	<i>Comment Type</i> TR TGy is using Behavior cla	Comment Status X ss 15		
Comment Type TR What is the relation between	Comment Status X en 1609.4? Is it a must to	o also refer to 16	09.4?	SuggestedRemedy change TGp behavior clas	sses to 16 and 17		
SuggestedRemedy Clarify.				Proposed Response Counter - The intent of the	Response Status O e comment is accepted; h	owever the table	entries have changed
Proposed Response F	Response Status O				455-401.		
Declined - See explanation	n in document 08-0586r1			C/ I SC I.2.3 Ecclesine, Peter	P 29	L 41	# 144219
C/ General SC General Adachi, Tomoko	<i>P</i> ii Toshiba Corr	L1 poration	# 125483	Comment Type TR	Comment Status X		
Comment Type TR There is no description how systems. It relates to the re	Comment Status X w the system cope with in eliability of the system ar	nterference from nd if there is no s	other overlapping uch mechanism, the	The scope of this amendr measurements of transmi bandwidth and a 30 kHz v changed to some stateme	nent is restricted from 3.6 t spectral density shall be rideo bandwidth." is beyon ent that is within scope.	5 GHz bands. The made using a 10 and the scope of the sco	he requirement "The 00 kHz resolution he PAR, and should be
system will be unrealistic.	, , ,		· · · · · , · ·	SuggestedRemedy			
SuggestedRemedy				Rewrite this subclause us	ing language that is clear	ly restricted to op	peration within the
Describe how BSS will cop	e with interference from	overlapping BSS	ŝs.	scope of the 802.11p PAF	R.		
Proposed Response F	Response Status O			Proposed Response	Response Status O		
Declined - See explanation	n in document 08-0584r0			Counter - New text to spe States, the measurements resolution bandwidth and	cify US Operations: "For s of transmit spectral den a 30 kHz video bandwidth	masks defined in sity are made us 1."	Annex I for the United ing a 100 kHz

C/ I SC **I.2.3** Page 31 of 34 17/07/2009 11:35:54

C/ I SC I.2.3 Ecclesine. Peter	P 32 Cisco Systems	L 47	# 141208	C/ Introdu SC Introduc Adachi, Tomoko	tion Pii Toshiba	L 40	# 125487
Comment Type TR The scope of this amendm measurements of transmit bandwidth and a 30 kHz vi changed to some stateme	Comment Status X hent is restricted to 5 GHz b spectral density shall be m deo bandwidth." is beyond nt that is within scope.	ands. The requiade using a 10 the scope of th	iirement "The 0 kHz resolution e PAR, and should be	Comment Type TR "Please see document (latest version) for add WAVE." Is this really j SuggestedRemedy	Comment Status X t, 11-07-2045-00-000p-I litional information on th ust information?	Development of DSR e development of the	C/WAVE Standards, amendment for
SuggestedRemedy Rewrite this subclause usi scope of the 802.11p PAR	ng language that is clearly	restricted to op	eration within the	Clarify. If there is anything in t moved into the draft.	he document that is req	uired for implementir	ng 802.11p, it should be
Proposed Response F	Response Status O			Proposed Response	Response Status)	
Declined - See doc: 11-09 <i>Cl</i> I SC I.2.3 Fischer, Matthew	-0020 and response in CID P 33 Broadcom	10. <i>L</i> 48	# 125444	Declined - This is part information that does to put this material in t referenced document(of the Introduction whic not or should not be a p he standard amendmer s) would have confirmed	h is a place to provid art of the final standa It it would have been d this.	e explanatory ard. If it was appropriate included. A review of the
Comment Type TR	Comment Status X			C/J SCJ	P 32	L1	# 144222
These spectral masks go l	beyond what has previously	been deemed	reasonable to	Perahia, Eldad	Intel		
implement with existing te	chnology.			Comment Type TR	Comment Status X		
SuggestedRemedy				If operation in 2.4GHz	taught us anything, it is	that partially overlap	ping channels are an
Reduce the constraints on	the TX spectral masks by	15 dB outside o	of the center 10 MHz.	incredible pain to deal exists every 5 MHz iu	with. TGp currently has st like in 2 4GHz This i	s channel sets define s not acceptable	d such that a channel
Proposed Response	Response Status O			Suggested Porrody			
Declined - The specificatic provided that they are not reasonable for an unlicens	ns are required for perform achievable. How was reast ed consumer device may n	ance. No evide onable defined ot apply when	ence has been ? What is considered considering a licensed	Disallow partial overla as to how to properly o	pping channels. Refer t define channel sets.	o 802.11-2007, 802.1	11y, and 802.11n D8.0
band public service unit.				Proposed Response	Response Status)	
C/ I SC I.2.3 Perahia, Eldad	P 33 Intel	L 48	# 125443	Declined - Operation layer, and also suppor area.	outside the context of a ts pre-assignment of the	BSS has significant i channels that may l	involvement of the higher be in use in a geographic
Comment Type TR This section is informative	Comment Status X , you can not have normativ	ve statements		urou.			
SuggestedRemedy remove all shalls							
Proposed Response F Declined - P802.11y-D11	Response Status O resulted in this section becc	oming normativ	е.				

CI J SC J

CIJ SCJ	P 32	L 31	# 144225	C/J S	C J	P 37	L18	# 125456
Perahia, Eldad	Intel			Perahia, Eldad		Intel		
Comment Type TR If operation in 2.4GHz incredible pain to deal exists every 5 MHz. iu:	Comment Status X taught us anything, it is that pr with. TGp currently has chan st like in 2.4GHz. This is not a	artially overlappi nel sets defined cceptable.	ng channels are an such that a channel	Comment Type TGk used r SuggestedRem	TR eg class 12 <i>edy</i>	Comment Status X		
SuggestedRemedy				use free reg	g class			
Disallow partial overlag as to how to properly o	oping channels. Refer to 802. define channel sets.	11-2007, 802.11	y, and 802.11n D8.0	Proposed Resp Counter - T	<i>onse</i> he intent of	Response Status O the comment is accepted; ho	wever the reme	edy of CID 457 is
Proposed Response	Response Status O			applied.				
Declined - Operation of layer, and also suppor area. (See also docum	outside the context of a BSS h ts pre-assignment of the channent 09-0488r1)	as significant inv nels that may be	volvement of the higher in use in a geographic	C/ J Si Perahia, Eldad	C J	P 37 Intel	L 21	# 125458
C/ J SC J Perahia, Eldad	P 32 Intel	L 50	# 144230	TGy used r	eg class 13			
Comment Type TR	Comment Status X			SuggestedRem	edy			
The purpose of TGp is outside of an independ DFS, which is pretty m appear to have addres	e described as "communicate c dent or infrastructure network". nuch defined in terms of BSS a sed DFS and TPC in 11.8 and	lirectly with anot The 5.47-5.725 nd IBSS operati 11.9	her such device 5GHz band requires ion. TGp does not	use free reg Proposed Resp Counter - T applied.	g class <i>onse</i> he intent of	Response Status O the comment is accepted; ho	wever the reme	edy of CID 457 is
SuggestedRemedy				C/J S	C J	P37	L 24	# 125459
TGp needs to provide infrastructure network.	the means to perform DFS out or remove TGp operation in 5	side of an indep 47-5.725GHz b	endent or and	Perahia, Eldad		Intel		
Proposed Response	Response Status O			Comment Type	TR	Comment Status X		
Declined - DFS and TI	PC are a function of the higher	layer when do1	10CBEnabled is	TGy used r	eg class 14			
TRUE. The DFS and	TPC functionality in 802.11 is	not applicable.		SuggestedRem	edy			
CIJ SCJ	P32	L 50	# <u>1</u> 44229	use free reg	g class	_		
Perahia, Eldad	Intel			Proposed Resp	onse	Response Status O		
Comment Type TR How is coexistence ad and 11n devices?	Comment Status X Idressed between TGp devices	; in the 5.47-5.72	25GHz band and 11a	applied.	ne intent of	the comment is accepted; no	wever the reme	edy of CID 457 IS
SuggestedRemedy								
Address coexistence v 5.725GHz band	vith legacy 11a and 11n device	es, or remove TO	Sp operation in 5.47-					
Proposed Response	Response Status O							
Counter - For this band 11n devices. See resolution to CID	d the channelization has been 225.	restricted to be	compatible with 11a or					
TYPE: TR/technical require	ed ER/editorial required GR/g	eneral required	T/technical E/editorial G/g	general				Page 33 of 34

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

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CI J SC J	P 37	L 27	# 125460	C/ J SC J.2.3 P38 L16 # 151179
Perahia, Eldad	Intel			Ecclesine, Peter Cisco Systems
Comment Type TR TGy used reg class 15	Comment Status X			Comment TypeTRComment StatusXAdd Regulatory class 17 to the normative statement.
SuggestedRemedy use free reg class				SuggestedRemedy "STAs in Regulatory Classes 16 and 17"
Proposed Response Counter - The intent of applied.	Response Status O the comment is accepted; he	owever the reme	dy of CID 457 is	Proposed Response Response Status O Counter - Counter. Same as CID #176.
C/ J SC J.2	P35	L 31	# 141209	C/ Table 7- SC Table 7-2 P4 L15 # 144041 Durand, Roger RIM
				Comment Type TR Comment Status X
Comment Type TR Comment Status X Europe currently does not allow 44.8 dBm EIRP. SuggestedRemedy Change 44.8 dBm to 33dBm in Table J.2 where it occurs. Proposed Response Response Status O Counter - Counter - Change is accepted. Also EN 302571-1 also does not specify transmit power levels in mW (at the antenna input) so the entries in the mW transmit column are to be deleted.				If either the "To DS" or the "from DS" bit is set to 1 the comment " for data frames outside of a BSS, this standard does not define procedures for using this combination of field values" serves no purpose
				SuggestedRemedy
				Remove the 11p comment
				Proposed Response Response Status O
				Counter - Change words added to be "or a data frame from STA to STA when dot110CBEnabled is true.
C/ J SC J.2.3	P34	L11	# 151176	
Malarky, Alastair	Mark IV IVHS			
Comment Type TR	Comment Status X			
Both regulatory classes J.2 by the same comm	s 16 and 17 should be covere enter is implemented, the cu	ed. However if the rrent text does not	e comment to Table of need changed.	
SuggestedRemedy				
Add regulatory class 17 not implemented.	7 to the first sentence, if com	menter's other c	omment to Table J.2 is	
Proposed Response	Response Status 0			
Counter - Counter. Su 16 (10MHz). The row of legacy in the 5.475-5.7 aligning with the .11 ba Regulatory Class 16, s	perceded by CID #122, which with Regulatory Class 17 (20) GHz ISM band due to LB144 seline. The former Regulator o the line is now correct. No	n deleted the row MHz) has been a comments on D y Class 17 has b change is neces	with Regulatory Class ligned with the .11a/n raft 6.0 with regard to een renumbered as sary.	

C/ Table 7-SC Table 7-2