## IEEE P802.11 Wireless LANs

	802.11y C	Conditional Sponsor Ball	lot Report	
		Date: 2007-07-13		
Author(s):	1	1	1	
Name	Affiliation	Address	Phone	email
Peter Ecclesine	Cisco Systems	170 W. Tasman Dr., San Jose, Ca 95134-1706	+1-408-527-0815	petere@cisco.com

### Abstract

This is the report documenting the results of the WG letter ballots on IEEE 802.11y. This report is to be submitted to the IEEE 802 Executive Committee to support the request to forward IIEEE 802.11y to Sponsor Ballot.

# 1. Introduction and Summary

This is the report to the IEEE 802 Executive Committee that documents all the WG letter ballots of IEEE 802.11y, including voting results, comment statistics, and unresolved negative comments.

The total number of voters on IEEE 802.11y is 347. The final results of the voters on IEEE 802.11y are 326 voted, 242 yes, 24 no, 60 abstained, for a 90.98% approval rate, a return percentage of 93.9%, and an abstain percentage of 18.4%.

There are 125 outstanding negative comments from seventeen remaining negative voters; forty seven of these outstanding negative comments are from the latest latter ballot and the remaining 68 outstanding negative comments are previously recirculated unresolved negative comments from previous letter ballots.

Based on results of the letter ballots on IEEE 802.11y as documented in this report, we are asking for approval from the IEEE 802 Executive Committee to forward IEEE 802.11y to sponsor ballot.

Agenda Items and motions requesting conditional approval to forward when the prior ballot has closed shall be accompanied by:

- Date the ballot closed
- Vote tally including Approve, Disapprove and Abstain votes
- Comments that support the remaining disapprove votes and Working Group responses.
- Schedule for recirculation ballot and resolution meeting.

Letter Ballot 94 was a vote on Draft 1.0, and ran for 40 days starting 12 December 2007, and ending on 7 January 2007.

309 voted, 182 yes, 59 no, 71 abstained, 75.52% approval rate Approve 182, Disapprove comments 59, Abstain 71

Letter Ballot 104 was a recirculation vote on Draft 2.0 and resolutions in 11-07-0008-12, and ran for 16 days from 19 April 2007 until 5 May 2007. 324 voted, 221 yes, 41 no, 62 abstained, 84.35% approval rate Approve 129, Disapprove comments 19, Abstain 32 = 180 ballots

Letter Ballot 106 was a recirculation vote on Draft 3.0 and resolutions recorded in 11-07-0602-07, and ran for 15 days from 5 June 2007 until 20 June 2007. 326 voted, 242 yes, 24 no, 60 abstained, 90.98% approval rate Approve 129, Disapprove comments 9, Abstain 28 = 166 ballots cast

Subsequently three negative voters have changed their votes to Approve, and at this time there are 16 Negative voters with comments recorded in the comment database.

Note that the resolutions for LB 106 comments have not yet been approved by the WG.

Of the total 117 no-voter unsatisfied comments from all letter ballots, many are non-technical comments marked technical, and many address similar topics.

The comments may be categorized as follows:

53 Required Comments on Draft 1.0 with no subsequent Negative voter participation. They mainly had an issue related with TGn timelines: the Channel Switch Announcment text that also appeared in TGn Draft 1.0 (LB 84) and TGv, and in subsequent events got consolidated into

TGy, as it is scheduled to complete before TGn and TGv. At the time of LB 94, the TGn Channel Switch Announcement defined another way to change Regulatory Classes, and proponents of that scheme made comments in LB 94 to remove Extended Channel Switching. TGn then changed their definition of what Regulatory Classes would be required, and in TGn Draft 2.0 adopted the TGy language for LB 97. If the WG approves the proposed LB 106 comment resolutions, there will be just three Channel Switch Announcements from LB 104 and 106 that remain rejected.

Voter	Total 802.11y	LB 94	LB 104	LB 106	Total
	comments	remaining	remaining	remaining	outstanding
		_	_		negative
					comments
Keith Amann	10+5=15	6	4		10
Clint Chaplin	7+4+2=13		1	2	3
David Cypher	10+6+3=19			3	3
Peter	25+69+17=		1	7	8
Ecclesine	111				
Vinko Erceg	7+0+4=11			4	4
Matthew	30	27			27
Fischer					
Thomas	1		1		1
Kurihara					
Joe Kwak	17+0+0	13			13
Andrew	17+4+21			21	21
Myles					
Stephen Palm	13+0+0=13	13			13
Subra	5+0+0=5	5			5
Parameswaran					
Adrian	62+11+2=75			1	1
Stephens					
Solomon	1+0+5=6	1		5	6
Trainin					
Qi Wang	7+5+2			2	2
		65	7	55	117

There was one Required comment on LB 104 "Confusions from submitting redline version without providing rationale to voters." and suggesting "Cancel and reissue ballot with justification for redline draft and include clean version, too." which the Task Group considers Out of Scope. If the WG agrees it is out of scope, then the voter's previous Approve vote on LB 94 would be the official one, not the Negative vote on LB 104.

The working group responses to all of these unsatisfied comments are on the following pages:

/ <b>00</b> SC P L # 1110 (urihara, Thomas"	C/ 03 SC 3.34b P1 L 59 # 2049 Myles, Andrew
omment Type <b>GR</b> Comment Status <b>D</b> Confusions from submitting redline version without providing rationale to voters.	Comment Type TR Comment Status X Definition uses term "restricted channel"
uggestedRemedy Cancel and reissue ballot with justification for redline draft and include clean version, too. roposed Response Response Status W PROPOSED REJECT. Out of Scope	However, this is not defined anywhere SuggestedRemedy Define "restricted channel"
·	A similar comment applies to 3.48a, which defines "restricted bands"
00 SC 0 P1 L # 5	Proposed Response Response Status W
umann, Keith"         omment Type       TR         Comment Status       A         The document does not cite which base document(s) this addendum applies to, therefore	PROPOSED ACCEPT IN PRINCIPLE. Adding definition of restricted channel ", which is channel where transmission is restricted to licensed operators and stations operating und their control".
making it impossible to know what this document is modifying.	C/ 03 SC 3.54a P1 L 65 # 2050
lggestedRemedy	Myles, Andrew
Add the statement "[This document is based on IEEE Std 802.11(tm), 2007 Edition]", assuming that this is the correct reference for the recently adopted maintenance release of 802.11. If not then the reference should be adjusted accordingly.	Comment Type ER Comment Status X The text uses "station"
esponse Response Status W	However, "STA" would be more consistent with the rest of clause 3
PROPOSED ACCEPT.	SuggestedRemedy
03 SC 3.34a P1 L 54 # 2051	Replace "station" with STA
yles, Andrew	Similar comment applies to other clauses in draft
omment Type <b>TR</b> Comment Status <b>X</b> The text speaks of an association between the dependent STA and the enabling AP.	Proposed Response Response Status W PROPOSED ACCEPT.
However, this is confusing because I understand that this is not intended to be an 802.11 association.	C/ 03 SC 3.y1 P9 L12 # 426
uggestedRemedy	Comment Type TR Comment Status D
Modify nomenclature to call relationship between the dependent STA and the enabling AP a "registration"	What does "publicly registered" mean?
	SuggestedRemedy
	explain
roposed Response Response Status <b>W</b> PROPOSED REJECT. As the FCC uses "registration" for licensed operators and stations in required databases and regulations, it would be very confusing to replace "enablement"	Proposed Response Response Status W

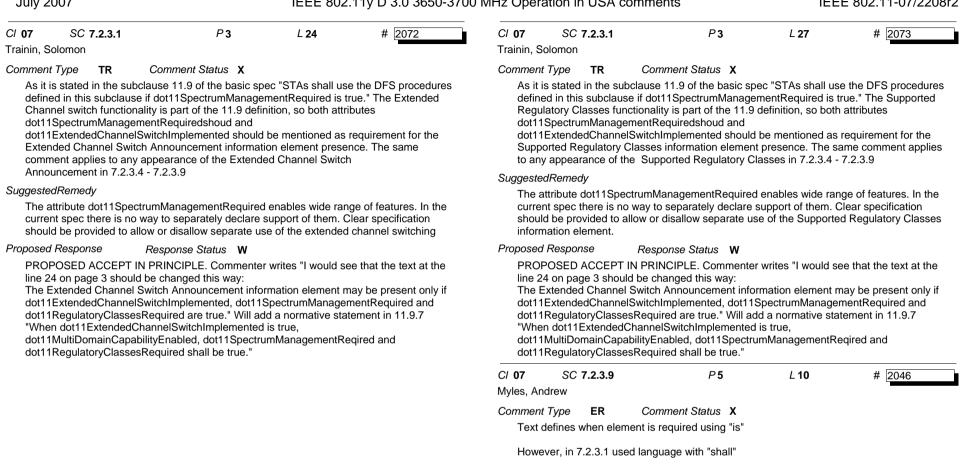
I YPE: I R/technical required ER/editorial required GR/general required T/technical E/editorial G/general	CI 02	Dogo 1 of 10
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	CI <b>03</b>	Page 1 of 19
SORT ORDER: Clause, Subclause, page, line	SC 3.y1	7/19/2007 3:33:34 PM
Corri oribera - Ciadoo, Caboladoo, Pago, into		

July 2007			IEEE 802	.11y D 3.0 3650-3700 M	MHz Opera	ation in USA	A comi	nents	IEI	EE 802.11-07/2208r
C/ 03 SC	<b>3.y3</b> r"	P <b>2</b>	L 10	# 1034	<i>CI</i> <b>05</b> "Palm, Ste	SC 5.2.7		P 10	L 10	# 430
provides a D device broad and retain pe SuggestedReme 1) Use the IT word 'associ permissionin Proposed Respo	DSTA access dcasts inform ermission to edy FU term for the ated' from the g mechanism onse	Comment Status <b>D</b> e: "The term enabling AP is to a DS over the air (for pu action over the air that a dep access to access a channel his kind of function - Control he current definition 3) Prop m using a subset of existing <i>Response Status</i> <b>W</b> reject: based on discussion	rposes including bendant STAs ne ." (or Controlling) erly articulate the association prod	association). This eeds in order to gain STA 2) Remove the e channel cedures.	Suggeste define Proposed PROF	<i>dRemedy</i> <i>Response</i> POSED ACCE write of 5.2.7, SC <b>5.2.7</b>	of "cogn <i>R</i> i PT IN P	Comment Status D ative radio"? esponse Status W RINCIPLE. The sentence nex J.2 (07/0271). P10	e being comme L <b>15</b>	nted on is removed in # 431
'Palm, Stephen" <i>Comment Type</i>	. , ,	P 9 Comment Status D stered" mean?	L 19	# 427	Suggeste Chan Proposed	" the same as dRemedy ge "US" to "US Response	"USA"? SA" <i>R</i> (	Comment Status D If so, the usage should I esponse Status W e comment is applied to A		271).
	ACCEPT IN	Response Status W I PRINCIPLE. Replaced wit can be used to facilitate inte			C/ <b>05</b> "Palm, Ste Comment	•	C	P 10 Comment Status D	L <b>26</b>	# 432
'Palm, Stephen" <i>Comment Type</i> 'some regula regulatory do SuggestedReme	omain edy or definition to onse	P 9 Comment Status D is" contradicts the title that s to be consistant Response Status W	L 22 states "in USA". I	# 428	Suggeste corre Proposed PROF	ct title or defini <i>Response</i> POSED ACCE	tion to b <i>Ri</i> PT IN P		e being comme	nted on is removed in

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general		Dama 2 of 10
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	C/ <b>05</b>	Page 2 of 19
SORT ORDER: Clause, Subclause, page, line	SC 5.2.7	7/19/2007 3:33:35 PM

July 200	7		IEEE 802	2.11y D 3.0 3650-370	00 MHz Opera	ation in USA	comments		IEEE 80	02.11-07/2208r2
<i>Cl</i> <b>05</b> "Palm, Steph	SC <b>5.2.7</b>	P 10	L <b>32</b>	# 433	<i>Cl</i> <b>07</b> Myles, An	SC 7.2.3.1 drew	Рз		L 19	# 2043
		Comment Status <b>D</b> e last clause that *only* 5MHz	channels may b	e used or the 5 MHz	Comment The te		Comment Status egistered location"	x		
SuggestedRe clarify					Suggeste		clearer if it used "DSE	Registered Lo	ocation"	
		Response Status W . The 'shalls' in 5.2.7 are being /Hz band.	moved to Ann	ex J.2 defining			oplies to 7.2.3.5, 7.2.3.		2	
 C/ <b>05</b> 'Palm, Steph	SC <b>5.2.7</b>	P 10	L <b>9</b>	# 429	PROF		<i>Response Status</i> T. Use is consistent wi ause 13.8 on capitaliza	th base standa	ard. See IEEE S	tandards Style
Comment Ty	,	Comment Status D a recommendation or requiren	nent?		C/ 07 Ecclesine	SC 7.2.3.1 Peter	Рз		L <b>20</b>	# 2021
	SED ACCEPT	Response Status W IN PRINCIPLE. The sentence w Annex J.2 (07/0271).	e being commer	ited on is removed in	dot11 is true	DSERequired is when either of LCIDSERequire	egistered location here s true or dot11RegLocl these is true. The quo ed is true' everywhere i	Required is true ted text should	e', when dot11L	CIDSERequired
C/ <b>05</b> "Kwak, Joe"	SC 5.2.7	P <b>4</b>	L <b>23</b>	# 258	Per c	omment Response				
enhance the need capability standard specified	C rules empha ments and oth for objective r y specified in T ized ED mech	Comment Status <b>D</b> sisze cognitive radio features, ler radio-aware features for lic radio measurements and thus rGk ammendment. This is es anism which cannot rely on R ccuracy requirement. RCPI is	ensed use. The require the radi becially true for SSI which is no	se capabilities imply o measurement use of a new t quantitatively	PROF	•	Response Status T IN PRINCIPLE. also s true'.		11RegLocRequi	ired is true or
SuggestedRe										
P4L23, c	hange ",Regu	latory" to ", Radio Measureme entEnabled true), Regulatory"								
Proposed Re	esponse	Response Status W								
operatior	n in US 3650 N	The 'shalls' in 5.2.7 are being /Hz band. The baseline for To ed in the comment will be ava	y includes TGk	and TGr, so the						
COMMENT S	STATUS: D/dis	ed ER/editorial required GR/g spatched A/accepted R/rejec Subclause, page, line				d U/unsatisfied	d Z/withdrawn	C/ 07 SC 7.2.3.1		Page 3 of 19 7/19/2007 3:33:35 P

Submission



SuggestedRemedy

Change language to be consistent

Note: I admit the base standard is not consistent but each amendment should be

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. commenter mixes Beacon frame elements with Probe Response frame elements, and many persistent Beacon frame elements (11, 14, 17, 18, 21) are Noted as "shall be present". Few Probe Response frame elements (13, 16, 17) use "shall be present", most (6, 7, 8, 9, 18, 19, 20, 21, 22) use "is present".

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	CI 07	
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	CI <b>U</b> 7	Page 4 of 19
SORT ORDER: Clause, Subclause, page, line	SC 7.2.3.9	7/19/2007 3:33:35 PM

C/ 07 SC 7.2.3.9 Myles, Andrew	P <b>5</b>	L 17	# 2045	C/ <b>07</b> Myles, And	SC <b>7.3.2.22.</b> 1 Irew	1 P <b>7</b>	L <b>24</b>	# 2053
Comment Type TR The Supported Regulator	Comment Status X	be Response "is p	resent if . is true"	<i>Comment</i> The te	Type TR		X to support the genera	tion of a DSE report if
However, a Supported Re present if . is true"	gulatory Classes element	t in a Beacon (see	7.2.3.1) "may be			ence says it is always	s optional	
SuggestedRemedy				Suggested	IRemedy			
Claify why is there a differ	ence, and correct as appi	ropriate.		Remo	ve contradiction			
Proposed Response PROPOSED ACCEPT. M	Response Status Wany persistent Beacon fra	ame elements (11,	14, 17, 18, 21) are	Proposed PROP	Response OSED ACCEPT.	Response Status	w	
Noted as "shall be presen be present", most (6, 7, 8, Supported Regulatory Cla "only."	9, 18, 19, 20, 21, 22) use	e "is present." Will	change change	C/ <b>07</b> "Amann, K	SC 7.3.2.36	P10	D <i>L</i> 11	# 6
C/ 07 SC 7.3.2.21.11 Nyles, Andrew	P 6	L <b>39</b>	# 2054			Comment Status referencing the sam	-	draft, but appears to be
Comment Type TR	Comment Status X			Suggested	lRemedy			
The text refers to the AP w However, it is unclear if th (with which it is associated	s is the enabling AP (with		ered) or the local AP	metho like the	d, or provide a de ere should be sor	etailed explaination of ne coordination betw	nd the 802.11k draft to f why these are both re een 802.11y and 802.1 to both rely on the use	1k regarding the
uggestedRemedy				Proposed	Response	Response Status	w	
Clarify to which AP the cla	use applies.			PROP	OSED ACCEPT	IN PRINCIPLE. Both	LCI elements were cor	ntributed by the same
If it is the enabling AP, ho communicate directly with		e report if it canno	t actually	author (refer to 11-05/517r0), who has processed all TGk LCI comments, a TGy. The coordination is close ;-) TGk's LCI measurement report element's Measurement Request and Response, while TGy DSE LCI IE is entered and		lement's use is via		
	Response Status W							anges. The TGk LCI is
Proposed Response				not an Element with an ID listed in Table 26, however it is listed in Table 29 Meas Type Definitions.			i able 29 Measurement	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	CL 07	Daga E of 10
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	CI 07	Page 5 of 19
SORT ORDER: Clause, Subclause, page, line	SC 7.3.2.36	7/19/2007 3:33:35 PM

July 2007
-----------

C/ 07 SC 7.3.2. "Kwak, Joe"	36 <i>P</i> 10	L <b>2</b>	# 259	C/ 07 SC 7.3.2.36 "Kwak, Joe"	P1	1 L 3	# 260
Comment Type TR	Comment Status D	ld be titled to define	e the format of the DSE	Comment Type TR	Comment Status		
registered location of SuggestedRemedy Retitle Figure y112/ baseline. Furtherm Information, but ind Proposed Response PROPOSED ACCE element format, and C/ 07 SC 7.3.2. Kwak, Joe" Comment Type TR From the descriptio single STA or uniqu Can two enabling S resolution be broad enabling STAs oper registered in the FC or portable within a	A to" DSE Egistered Location ore rewrite clause to eleimiate icate that DSE Registered Loc <i>Response Status</i> <b>W</b> PT IN PRINCIPLE. Will add a d remove this figure. <b>36</b> <i>P</i> <b>11</b> <i>Comment Status</i> <b>D</b> n given for DSE LCI and DEI, te to a broadly defined location TAs use the same DEI? If so enough to cover a campus? rate at the same registered loc C database for registered location? Ho	Element Format", o e term DSE Locatio cation Element con a figure for the DSE <i>L</i> 3 it is not clear if the n or unique among under what conditi a town? a state? C cation? Does the D ed STAs? Can ena ow can operation w	consistent with on Configuration itains LCI information. Registered Location # [263 DEI is unique to a national licensees. ons? Can the LCI can two or more DEI need to be abling STAs be mobile ithin the rules occur	zero, the Dependant E transmitted this IE. Ot enabling STA which h transmitting this IE." Proposed Response PROPOSED ACCEP Identifier is a 16-bit fie location element in the clause 11 DSE proceed C/ 07 SC 7.3.2.36 "Palm, Stephen" Comment Type TR	e set by the enabling s Enablement Identifier of herwise the Dependar as enabled transmissi Or use similar equival <i>Response Status</i> IN PRINCIPLE. Sent Id with a value set by e (re)association respo dures, not in clause 7. <i>P</i> 1 <i>Comment Status</i> ntence, "meter" shall r	tation" with "value. If Dep contains the ID of the en- nt Enablement Identifier ons for the dependent S ent wording. W rence changed to "Depent the enabling station via to onse, or zero." Description 6 L 10 D not be capitialized. See	abling station which conatins the ID of the TA which is ndent Enablement the DSE registered
indoors? Can indoor (shielded from outdoor transmissions from enabling STA) operation in an entire building be permitted if at least one indoor STA is enabled by the distant registered fixed STA and can relay the information to other indoor STAs? Can a DSE enabled STA enable nearby STAs which cannot receive the direct transmission from the distant fixed registered STA, for instance mobile STAs in cars which enter a town and are shielded by buildings along the street from the horizon. Can a STA be enabled by being in radio range of a STA that can directly receive beacons from a fixed registered STA? If a			by the distant TAs? Can a DSE ransmission from the enter a town and are be enabled by being in registered STA? If a	Proposed Response PROPOSED ACCEP therefore this line is de Cl 07 SC 7.3.2.36	eleted.	F RFC 3825 is unchang	ed by 802.11y, # [436
	chan A, can it transmit on cha n channel A once each minut		uing to monitor for	"Palm, Stephen"		_	
SuggestedRemedy				Comment Type <b>TR</b> What are "floors"?	Comment Status	U	
a fairly short time pe and explanation of l	e questions and clarify text w eriod by a very dedicated and known draft defects and ongo	skilled task group!	KUDOS! Your use	SuggestedRemedy Define			
clause 11 DSE proc FCC registration rec	Response Status W PT IN PRINCIPLE. The ques redures, rather than clause 7 quires the location be stated to will not have the same LCI.	field descriptions. I	t should be noted that		therein. The definition	W ne normative reference, a n in IETF RFC 3825 is ur	
COMMENT STATUS: D	uired ER/editorial required G //dispatched A/accepted R/re e, Subclause, page, line			general ritten C/closed U/unsatisfied	Z/withdrawn	C/ 07 SC 7.3.2.36	Page 6 of 19 7/19/2007 3:33:35

Peter Ecclesine, Cisco Systems

July 2007			2.11y D 3.0 3650-3700			omments		EE 802.11-07/2208r
Cl 07 SC 7.3.2. "Palm, Stephen"	36 P16	L 12	# 438	<i>CI</i> <b>07</b> Hiertz, Guido	SC 7.3.2.50	P 10	L <b>63-6</b>	# 2039
Comment Type TR	Comment Status D			Comment Ty	vpe TR	Comment Status X		
http://www.bipm.fr/e	at the beginning of a sentence, "r en/si/si_brochure/chapter5/5-2.ht		be capitialized. See	anytime	after the frame	annel Switch Count field containing the element rirly, there is no use in te	is transmitted." seem	
SuggestedRemedy				SuggestedR				
Fix capitalization Proposed Response	Response Status W			Delete s	entence and re	eword previous sentence tely before the next TBT		of 0 indicates that the
PROPOSED ACCE	EPT.			Proposed Re	esponse	Response Status W		
C/ 07 SC 7.3.2. "Palm, Stephen"	36 P 16	L 6	# [435	says "I a		Text is identical to 7.3.2 channel", and the receivency.		
	Comment Status D definitions, the reference or this	document.		<i>CI <b>07</b> "Amann, Kei</i>	SC 7.3.2.50	P7	L <b>5</b>	# 1002
SuggestedRemedy Clarify				Comment Ty There is		Comment Status D defined in the Extended	Channel Switch Ann	ouncement Information
Proposed Response	Response Status W					el Switch Count" with no		
PROPOSED ACCE change "2.1 or as"	EPT. Clause 2 states Normative F to "2.1 except as".	Reference for RF	C 3825, and will	SuggestedR	-	of the draft there was te	xt that described what	at this field was and
Cl 07 SC 7.3.2. "Parameswaran, Subra Comment Type TR		L <b>6</b>	# 439	what val and in re understa	ues it could co eviewing the co and the original	ntain. It appears to have mment resolutions I thin commenter's concern (0 ve been moved, and wo	been stricken in this k I've discovered wh CID 359 on previous	s version of the draft, y. Although I ballot), I don't agree
21	switch announcement information	n element has or	nlv one more field (i.e	Proposed Re		Response Status W		
new regulatory class) than the existing channel switch announcement IE, so why not use only the new regulatory class as the content of this new IE? When needed, both the existing CSA IE and the new IE can be sent.		PROPOSED ACCEPT IN PRINCIPLE. "Accept in Principle based on discussion and editorial instructions in 07/0673: ætext from 7.3.2.20 will be used, replacing "shall be set to with "indicates", replacing "shall be set to zero" with "or zero" and "shall occur" with						
SuggestedRemedy				"occurs"				
	ded channel switch announceme not in the existing channel switch							
Proposed Response	Response Status W							
PROPOSED REJE	CT. The ECSA is six octets, few	er than any alter	native in LIS 3650 MHz					

PROPOSED REJECT. The ECSA is six octets, fewer than any alternative in US 3650 MHz band. We do the same as TGn D2.0.

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

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

Peter Ecclesine, Cisco Systems

Page 7 of 19

7/19/2007 3:33:35 PM

CI 07

SC 7.3.2.50

SORT ORDER: Clause, Subclause, page, line

July 2007		IEEE 802	2.11y D 3.0 3650-3700	0 MHz Oper	ation in USA	comments	IEE	E 802.11-07/2208r
C/ 07 SC 7.3.2.2 "Kwak, Joe"	к Р <b>9</b>	L <b>1</b>	# 264	CI <b>07</b> "Parames	SC 7.4.1.6 swaran, Subra"	P13	L <b>4</b>	# 440
element may be inc optional neigbor rep	Comment Status <b>D</b> bor Report Element for this ban luded for each AP in the neighb ort subelement which would be uld provide a neighbor report lis	or list. The new required when c	element would be an perating in this 3650-	it is n chan	aintain backwar hore efficient to a nel switch relate	Comment Status <b>D</b> ds compatibility, the existing CS append new information to the e d frame.		
licensee (and optior network whcih woul	ally for competitors) and would d greatly facilitate roaming for n lge of position, velocity and dire	l provide a geogr nobile STA in car	aphical layout of the	Remo	dRemedy ove this newly d I Response	efined channel switch announce Response Status W	ement related fr	ame.
Proposed Response	nied from TGk as suggested. <i>Response Status</i> <b>W</b> CT. As TGk is part of the baseli	pe for Tay, the N	eighbor Report	PROI of 5 c lengtl	POSED REJEC	T. The REV-ma Channel Switch by stations would have unspecif here is no backward compatibi	ied behavior if t	he element indicated a
Element will be pres	sent. Additionally, Tgy has no re ed AP' is not present.			<i>CI</i> <b>07</b> Cypher, I	SC <b>7.4.1.7</b> David	P <b>12</b>	L 38	# 2006
C/ 07 SC 7.4.1.0	6 P 13	L <b>4</b>	# 655	Comment There	51	Comment Status X Ilue field in Figure 117b. There	is only an Actic	on field.
Extended Channel Switch Announcem SuggestedRemedy		/ be contained in		For c exists Proposed		value after Action in the Figure. a and 7.4.1.6 (however it was no <i>Response Status</i> <b>W</b> T.		
Remove the Extend	ed Channel Switch Announcem	ent frame.		C/ 09	SC 9.8.3	P 13	L <b>12</b>	# 2013

#### Proposed Response Response Status W

PROPOSED REJECT. The REV-ma Channel Switch Announcement element has a length of 5 octets, and legacy stations would have unspecified behavior if the element indicated a length other than 3. There is no backward compatibility with TGh stations in this band, and only the ECSA is used.

Comment Status X

Response Status W

information, and the statements should apply to any station when

dot11RegulatoryClassesImplemented is true.

capability tests about Clause 9.8.3 to A.4.12.

The 802.11-2007 standard is silent about parcing the Country Information element

Remove "and dot11LCIDSERequired is true" from the first sentence, and add a PICS

PROPOSED ACCEPT IN PRINCIPLE. Will Remove "and dot11LCIDSERequired is true" from the first sentence, and add a PICS capability tests about Clause 9.8.3 to A.4.10.

TYPE: TR/technical required ER/editorial required GR/gene	CL 22		
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdraw	wn C/ <b>09</b>	Page 8 of 19
SORT ORDER: Clause, Subclause, page, line		SC 9.8.3	7/19/2007 3:33:35 PM

Ecclesine, Peter

Comment Type **TR** 

SuggestedRemedy

Proposed Response

C/ 09 SC 9.8.3	P 13	L 12	# 2074	C/ <b>09</b>	SC 9.8.4		P 13	L <b>48</b>	# 2014
Trainin, Solomon				Ecclesine, I	Peter				
Comment Type TR	Comment Status X			Comment 7	Type TR	Comment Sta	tus X		
dot11LCIDSERequired apply:" the defined rule Enablement procedure	n dot11RegulatoryClassesImp d is true, the following stateme es applies to the STA that ena es only. It seems that the rules	ents ables the Depenc	lent Station	Transm Class, a	nit Power Level and the statem	dard is silent abou differs from the Tr ent should apply to esImplemented is	ansmit Pow	ver limit indicated	the received Max by the Regulatory
operates with regulato	Ty classes			Suggested	Remedy				
SuggestedRemedy Extend the rules for an	ny station that operates with re	egulatory classes	5		e "and dot11L0 nd RC7 accordi	•	true" from t	he sentence, and	change PICS A.4.13
Proposed Response	Response Status W			Proposed F	Response	Response Stat	tus <b>W</b>		
PROPOSED ACCEPT	· ·								SERequired" from the
					fourth sentence, "and dot11LCIDSERequired is true" from the sixth sentence, and change PICS capability tests about Clause 9.8.4 in A.4.13.				
CI 09 SC 9.8.4	P 13	L <b>42</b>	# 2015	PICSC	apability tests a	about Clause 9.6.4	· IN A.4.13.		
Ecclesine, Peter				C/ 10	SC 10.3.10.	1.2	P <b>20</b>	L 16	# 2005
Comment Type TR	Comment Status X			Cypher, Da	vid				
	dard is silent about resolving			Comment 7	Type ER	Comment Sta	tus X		
	received by an unassociated nen dot11RegulatoryClasses			Why is there a lack of consistency with the entries under Type and Valid range for this item					
	ien dol i rregulatoryClassesi	inplemented is th	ue.	that use specific subclause references, while in all previous similar items, generic					
SuggestedRemedy				descrip	tive text is used	d instead?			
	CIDSERequired is true from t	he sentence, and	I change PICS A.4.13	Suggested	Remedy				
RC5 accordingly.					link/reference) the				
Proposed Response	Response Status W						e with the g	generic non-desci	riptive text. For clarity
	IN PRINCIPLE. Will Remove dot11LCIDSERequired is true				ner is requeste				
	bout Clause 9.8.4 in A.4.13.		ormonioe, and change	Proposed F	•	Response Stat			
				PROP	OSED ACCEPT	IN PRINCIPLE V	Vill change	Type to 'As define	ed in the DSF

PROPOSED ACCEPT IN PRINCIPLE. Will change Type to 'As defined in the DSE registered location element', and Valid range to 'As defined in 7.3.2.49' in all the other Clause 10 entries for DSE registered location and 7.3.2.51 for SupportedRegulatoryClasses.

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	C/ 10	Page 9 of 19					
SORT ORDER: Clause, Subclause, page, line	SC 10.3.10.1.2	7/19/2007 3:33:35 PM					

IEEE 802.11y D 3.0 3650-3700 MHz Operation in USA comments



#### Comment Type TR Comment Status D

The implication of this poorly worded statement implies that every station will respond to a probe request containing a DSE registered location element with a Probe Response. Based on my somewhat limited understanding of this standard it appears that enabling and fixed stations are the equivalent of an access point. If this is true then this requirement appears to conflict with the "implied" requirement of clause 11.1.3.2.1 (802.11ma-D9.0, Sending a probe response) that the AP is the only device to respond to a probe request in a BSS.

#### SuggestedRemedy

Add appropriate clarifying text to the statement which differentiates the appropriate behavior which should occur for each of the different types of environments that a dependent device could find itself in.

### Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. The rewritten clause will not mention Probe Request nor Probe Response

C/ 11	SC 11.10.3	P <b>26</b>	L <b>44</b>	# 265
"Kwak. Jo	oe"			

Comment Type TR Comment Status D

Requiring a dependent STA to transmit to self a Probe response after each transmission is ridiculous. Perhaps it would be better to transmit such a Probe response every 256 transmissions or receptions. Where does this "requirement" come from? I find no FCC rule requiring DSE enabled STAs to broadcast the source of their enablement.

#### SuggestedRemedy

P26L44 change "whenever the sum modulo [256] changes" to "whenever the sum modulo [256] decreases indicating count rollover". This makes more sense, but still might be excessive.

#### Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. The rewritten clause will not mention Probe Request nor Probe Response. The three counters increment when ACKs or frames or fragments are transmitted, allowing the scheduling of DSE registered location frames in relation to the number of transmissions, rather than as a function of time. Text changed to "and schedule this Action frame to be sent to the broadcast address using normal frame transmission rules, whenever the sum modulo dot11DSETransmitDivisor has a remainder of zero."

#### Comment Type TR Comment Status X

This is similar comment to one I made in the last LB that was not addressed because I acidently marked it as not required

My understanding of the intent of 11y is as follows:

\* Dependent AP hears enabling AP

\* Dependent AP registers with enabling AP, either over the air or via wire (noting the dependent AP may be a low power device unable to communicate with the enabling AP) \* Enabling AP accepts registration from dependent AP and allocates unique indentity to dependent AP

\* Dependent STA hears enabling AP, either over the air or via wire

\* Dependent STA registers with enabling AP, either over the air or via wire (noting the dependent AP may be a low power device unable to communicate with the enabling AP) \* Enabling AP accepts registration from dependent STA and allocates unique indentity to dependent STA

\* Both the dependent AP and the dependent STA may operate normally while they regularly hear the enabling AP

However, if this underdstanding is correct then there are lots of unanswered questions in the draft

\* Where is all this described in the text?

\* What protocol is used for a dependent STA or a dependent AP to communicate with the enabling AP, over the wire (possibly in a different subnet) or over the air?

\* Is the dependent STA allowed to associate with the dependent AP for the purpose of registering over the wire with the enabling AP? The text in 11.14.3 implies not.

#### SuggestedRemedy

The text needs to be completely rewritten to describe intent completely

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Will rewrite to remove concurrent associations.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	01 44	Dogo 10 of 10
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	0/ 11	Page 10 of 19
SORT ORDER: Clause, Subclause, page, line	SC 11.14	7/19/2007 3:33:36 PM

### IEEE 802.11y D 3.0 3650-3700 MHz Operation in USA comments

C/ 11 SC 11.14 Myles, Andrew	P 25	L <b>50</b>	# 2056	C/ 11 SC 11.14 P 26 L 32 # 2058 Myles, Andrew
Comment Type <b>TR</b> The text refers to "frequ	Comment Status X uency band"			Comment Type <b>TR</b> Comment Status <b>X</b> The draft seems to define measurement requests and responses.
However, "frequency b	and" is not defined			However, there is no description in 11.14 on how this should occur
SuggestedRemedy Define "frequency band	d" in this context			SuggestedRemedy Provide a description in 11.14 on how the measurements are intended to be used
	Response Status W IN PRINCIPLE. Frequency ba Will rewrite 11.14 text being of			Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Will put usage overview description in 11.14.1.
C/ 11 SC 11.14	P 25	L <b>50</b>	# 2057	C/ 11 SC 11.14.3 P 27 L 1 # 2059 Myles, Andrew
However they do not se SuggestedRemedy Fix, or explain why not Proposed Response	Comment Status X is parameters indexed by frequent eem to be indexed by frequent Response Status W W. Will rewrite to remove appar	cy band in the M		Comment Type       TR       Comment Status       X         The text provides a picture of a "typical" state machine.       Why does the draft need a "typical" state machine?         SuggestedRemedy       Remove diagram or provide better context         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE. a picture is sometimes worth 1000 words, and 802.11-2007 Figures 15.7, 15.9, 17.15, 17.7, 18.8 and 18.10 show typical state machines the state machine diagram clarifies the decision to change states, and its consequences
Cl 11 SC 11.14 Myles, Andrew Comment Type TR Page 40 says the DSE dot11DSERequired is t	P 25 Comment Status X procedures (defined in 11.14 true	L <b>64</b> ) are only used v	# 2055	
However, line 64 cover SuggestedRemedy	rs the case when dot11DSER	·		
Proposed Response	Response Status W			

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/gen	eral required T/technical E/editorial G/general		Dogo 11 of 10
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	C/ 11	Page 11 of 19
SORT ORDER: Clause, Subclause, page, line		SC 11.14.3	7/19/2007 3:33:36 PM



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

A station can use active or passive scanning. With passive scanning, a STA does not transmit any frames. It solely seeks for beacon frames. With active scanning, a STA transmits probe request frames after some period the WM is detected as idle.

"The current text reads "For DSE, the following statements apply: A STA with dot11DSERequired set to true shall not operate in an infrastructure BSS or IBSS unless it has received a Beacon frame or Probe Response frame from a enabling AP with the Spectrum Management bit set to 1 in the Capability Information field, and with the RegLocDSE bit set to 1 in the DSE registered location element."

To receive a Probe Response the STA needs to transmit a Probe Request. Once it has transmitted a Probe Request in search of an AP it may have already violated the regulatory limitations.

#### SuggestedRemedy

Do not allow active scanning when the STA is known to operate in a frequency band that requires an enabling AP to be allowed to transmit.

Therefore, change the text accordingly to not to allow a station to search for APs using Probe Request frames.

#### Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. will remove Probe Response from unenabled state, but retain Probe Request/Probe Response in enabled state, for use when dot11DSERenewalTime limit approaches.

C/ <b>11</b> Myles, An	SC 11.14.3 drew	P <b>2</b>	8	L <b>7</b>	# 2060
Comment The te	<i>Type</i> <b>TR</b> ext includes "coun	Comment Status t the sum"	x		
This n	nakes no sense				
Suggestee Recas	2	nove "count the sum'	1		
	Response POSED ACCEPT.	Response Status	w		

### "Amann, Keith" Comment Type TR Comment Status D

The paragraph states that "A STA with dot11DSERequired set to true shall not operation in an infrastructure BSS or IBSS unless it has received a Beacon frame or Probe Response frame from a enabling AP...". The following paragraph goes on to state that an STA that is not associated with an enabling AP shall not transmit except to authenticate and associate. So, how does a STA with dot11DSERequired set to true operating in an IBSS start an IBSS? According to this text it isn't allowed to transmit until is has received a Beacon from an enabling AP, but in an IBSS there is no AP. Furthermore, these two paragraphs would imply that the STA is also not able to send probe request messages because they don't fall into the category of authentication or association, so if it is not currently hearing beacons it is also unable to probe to locate service.

#### SuggestedRemedy

Clarify the text as to how an STA can start an IBSS by indicating that it is permissible for the STA to start the IBSS if it is either configured for that mode, or has fallen back to IBSS mode after attempting to find an enabling AP, and in this case that it is permissible for the STA to transmit an IBSS beacon. Further clarify the text to state whether it is permissible for the STA to send probe requests or not when attempting to locate an enabling AP.

#### Proposed Response Response Status W

PROPOSED REJECT. Reject: based on discussion and editorial instructions in 07/0801r0; "The first suggested remedy is illegal in US 3650 MHz band, as all dependent stations must directly receive and decode an enabling signal before first transmission, as stated in next entry in dashed list."

C/ 11	SC 11.9.7.1	P <b>24</b>	L <b>12 to</b>	# 441
"Parames	swaran, Subra"			
~				

Comment Type TR Comment Status D

Regulatory class -unaware legacy devices can not switch to the new channel properly according to these defined rules.

#### SuggestedRemedy

CSA frame should always be sent to ensure the proper channel switch of legacy devices. When a new regulatory class information needs to be communicated, it can be appended to the existing CSA frame in the format of a new information IE.

#### Proposed Response Response Status W

PROPOSED REJECT. There are no legacy devices that support CSA that perform 'proper channel switch' as it was undefined in the base standard or amendment h. We adopt the TGn D2 variable dot11ExtendedChannelSwitchImplemented.

TYPE: TR/technical required ER/editorial required GR/general	I required T/technical E/editoria	al G/general		01 44	
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open	W/written C/closed	U/unsatisfied Z/withdrawn	C/ 11	Page 12 of 19
SORT ORDER: Clause, Subclause, page, line				SC 11.9.7.1	7/19/2007 3:33:36 PM

July 2007         IEEE 802.11y D 3.0 3650-3700	MHz Operation in USA comments IEEE 802.11-07/220
C/ 11 SC 11.9.7.1 P 24 L 23 # 2075 Trainin, Solomon	C/ 11 SC 11.9.7.1 P 24 L 38 # 2076 Trainin, Solomon
Comment Type       TR       Comment Status       X         Using of an Extended Channel Switch Announcement element and frame and a Channel Switch Announcement element and frame actually will present the same information so it is not clear why the use of the Extended Channel Switch Announcement element and frame is mandated. The same comment applies to 11.9.7.2         SuggestedRemedy         Explain clearly when each of the infromation elements and frames should be used and why	Comment Type       TR       Comment Status       X         Paragraph that starts at line 38 does not define behavior of the Extended Channel Switch Announcement element         SuggestedRemedy         Define behavior for the Extended Channel Switch Announcement element         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE. Will change initial text of second paragraph to "In
Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE. The change in regulatory class is the information that differs between ECSA and CSA. The only cases where regulatory class is changed and both ECSA and CSA are sent, are when the requirements signified by the new regulatory class are met by all STAs that act on the Channel Switch Announcement.         C/ 11       SC 11.9.7.1       P 24       L 32       # 2077	In the following text: " and make corresponding change initial text of second paragraph to " in the following text before paragraph the starts with "An AP shall inform associated STAs": In the following text, wherever Channel Switch Announcement is referred to both the Extended Channel Switch Announcement and Channel Switch Announcement should be used as defined in 1) and 2)"."
Wang, Qi Comment Type TR Comment Status X "If dot11ExtendedChannelSwitchImplemented is false, the AP shall send the Channel	Cl 11 SC 11.9.7.2 P 24 L 64 # 2078 Wang, Qi Comment Type TR Comment Status X
Switch Announcement and frame, or both the Extended Channel Switch Announcement and the Channel Switch Announcement elements and frames." SuggestedRemedy	"If dot11ExtendedChannelSwitchImplemented is false, the DFS shall send the Channel Switch Announcement and frame, or both the Extended Channel Switch Announcement and the Channel Switch Announcement elements and frames."
If doc11ExtendedChannelSwitchImplemented is false, how can an AP send both Extended Channel Switch Announcement and the Channel Switch Announcements and frames since the AP does not have the Extended Channel Switch capability? Section 11.9.7.1 is under clause 11 for DFS in 5Ghz band, do the rules specified here also apply to the operation in other bands (e.g. 2.4Ghz and 3.65Ghz)? Clarify. <i>Proposed Response</i> Response Status <b>W</b>	SuggestedRemedy If doc11ExtendedChannelSwitchImplemented is false, how can a DFS owner send both Extended Channel Switch Announcement and the Channel Switch Announcements and frames since the DFS owner does not have the Extended Channel Switch capability? Section 11.9.7.2 is under clause 11 for DFS in 5Ghz band, do the rules specified here also apply to the operation in other bands (e.g. 2.4Ghz and 3.65Ghz)? Clarify.
PROPOSED REJECT. No further clarification needed. The fourth sentence of 11.9 allows DFS procedures to be used in other bands. Other text makes their use mandatory for operation in other bands. * The STA may choose to implement ECSA without setting dot11ExtendedChannelSwitchImplemented to true * 802.11n specifies in 11.9.8 that dot11ExtendedChannelSwitchImplemented shall be true for HT STAs operating in either or both of the 2.4 and 5 GHz bands. The 3.65 band is covered by TGy. Comment lacks specific objections with proposed resolution in sufficient detail so that the specific wording of the changes that will cause the negative voter to change his or her vote to "approve" can readily be determined.	<ul> <li>Proposed Response Response Status W</li> <li>PROPOSED REJECT. No further clarification needed. The fourth sentence of 11.9 allows DFS procedures to be used in other bands. Other text makes their use mandatory for operation in other bands.</li> <li>* The STA may choose to implement ECSA without setting dot11ExtendedChannelSwitchImplemented to true</li> <li>* 802.11n specifies in 11.9.8 that dot11ExtendedChannelSwitchImplemented shall be true for HT STAs operating in either or both of the 2.4 and 5 GHz bands. The 3.65 band is covered by TGy. Comment lacks specific objections with proposed resolution in sufficient detail so that the specific wording of the changes that will cause the negative voter to change his or her vote to "approve" can readily be determined.</li> </ul>

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	01 44	Dama 40 of 40
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	C/ 11	Page 13 of 19
SORT ORDER: Clause, Subclause, page, line		SC 11.9.7.2	7/19/2007 3:33:36 PM

IEEE 802.11y D 3.0 3650-3700 MHz Operation in USA comments

July 2007		IEEE 802	.11y D 3.0 3650-3700	MHZ Opera	tion in USA (	comments	IEE	= 802.11-07/2208
C/ 11 SC 11.9.7 Parameswaran, Subra	.2 P 25	L <b>42</b>	# 442	C/ <b>17</b> "Amann, Ke	SC 17.1	P 27	L <b>12</b>	# 13
Comment Type TR	Comment Status D			Comment	Type <b>TR</b>	Comment Status D		
	are regulatory class -unaware o these defined rules.	can not switch to	the new channel	operati	on at 2.4GHz.	erences that point back to clau The proposed addition of the s	statement "This C	FDM system shall
	always be sent to ensure the pro			clause		2.4 GHz frequency band" creat clause 17, which now states the notated.		
	tory class information needs to frame in the format of a new inf		l, it can be appended	Suggested	Remedy			
Proposed Response	Response Status W					regarding operation on the 2. details for the use of OFDM a		
channel switch' as i	CT. There are no legacy device t was undefined in the base sta t11ExtendedChannelSwitchImp	ndard or amendm		referen Proposed I	ced first when e	examining 2.4GHz operation. Response Status W		
2/ 11 SC 11.9.7 Chaplin, Clint"	.3 P 22	L <b>25</b>	# 1020	C/ 17	SC 17.3.10.		L 10-1	# 443
Comment Type <b>TR</b> "this Country." Wha	Comment Status <b>D</b> at is "this" country?			"Paramesw Comment	varan, Subra" <i>Type</i> <b>TR</b>	Comment Status D		
SuggestedRemedy	,			The de	finition of the th	reshold is not quite correct.		
Please specify whic	h, or what, "this" country is.			Suggested				
	Response Status W PT IN PRINCIPLE. Accept in P his Country (7.3.2.9)'.	rinciple based on	discussion in 07/0674:	CS sig rate se equal t	nal busy for any nsitivity (greate	to: ""If the preamble portion was signal 20 dB or more above the or equal than -62 dBm for 20 r 10 MHz channel spacing, and	he minimum mod MHz channel sp	lulation and coding acing, greater or
haplin, Clint	.5 F 20	210	# 2002	Proposed I	Response	Response Status W		
Comment Type TR	Comment Status X	occording order of		-	OSED ACCEPT IRESHOLD.	IN PRINCIPLE. Annex I will re	efer to 10 Db mo	re restrictive
	ory Class(es) field shall list in a able of operating with, for this C action.							
SuggestedRemedy								
	ory Class(es) field shall list in a able of operating with, for the Core (7.3.2.9)."							
Proposed Response	Response Status W							
	PT							

PROPOSED ACCEPT.

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

 C/
 17
 Page 14 of 19

 SC
 17.3.10.5
 7/19/2007 3:33:36 PM

C/ 17 SC 17.3.10.5 P 32 L 32-4 # 2026	C/ 17 SC 17.3.6 P 29 L 58-6 # 2024
Erceg, Vinko	Erceg, Vinko
Comment Type       TR       Comment Status       D         "For the optional CCA-ED, the OFDM PHY shall provide the additional capability to perform CCA-ED. The CCA shall indicate BUSY if there is any energy above the ED threshold or CS." In these sentence there is a "shall" statement for "optional". If something is "optional" then usage of "shall" seems to be incorrect.         uggestedRemedy         Change the sentence to: "For the optional CCA-ED, the OFDM PHY provides the additional capability to perform CCA-ED. The CCA indicates BUSY if there is any energy above the ED threshold or CS."         roposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.	Comment Type       TR       Comment Status       D         "For improved spectrum sharing in some bands, an optional Clear Channel Assessment- Energy Detect (CCAED) may be used. The behavior class indicating CCA-ED is given in Table 1.3. The regulatory classes requiring the corresponding CCA-ED behavior class are given in Annex J." In this paragraph optional CCA-ED is defined that actually becomes mandatory for the 3.65 GHz band in Annex I and J. I don't think that this is a good way of writing a spec: optional that is actually mandatory is very confusing.         SuggestedRemedy       In some way relate CCA-ED to only regulatory classes in Annex I and J that are required to have CCA-ED, i.e. 3.65 GHz band. Wording "optional CCA-ED" is very confusing. Avoid using optional in the text. I understand that this may be a tricky task but I believe that it has to be done.         Proposed Response       Response Status       W
<b>17</b> SC <b>17.3.12</b> P <b>32</b> L <b>9</b> # 266 wak, Joe"	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Demment Type       TR       Comment Status       D         A standardized ED mechanism cannot rely on RSSI which is not quantitatively specified and has no accuracy requirement. RCPI is needed for uniform ED operation within a DSE BSA         uggestedRemedy         P32L9 change "RSSI" to "RCPI".	CI 17       SC 17.3.9.2       P 26       L 62       # 1006         "Amann, Keith"       "Amann, Keith"       The comment Type       TR       Comment Status       D         The text calls states that at 15MHz frequency offset the transmit spectrum will have a - 40dBr bandwidth when using 20MHz channel spacing. Figure y254a (next page) appears to indicate that this is -45 dBr.
roposed Response Response Status W PROPOSED REJECT. RSSI is currently used in clause 17 for CCA. 11y D1.0 maintains this approach.	SuggestedRemedy         Correct either the text or the figure as required to ensure that the text and the figure are consistent with regard to the bandwidth number in this case.         Proposed Response       Response Status       W         PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	01 47	
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	C/ 17	Page 15 of 19
SORT ORDER: Clause, Subclause, page, line	SC 17.3.9.2	7/19/2007 3:33:36 PM

17         SC 17.3.9.2         P 29-30         L 11         # 12           mann, Keith"         12         12         12	C/ 17   SC 17.5.5.9.1
It appears that the task group felt it necessary to duplicate information which was contained in Annex I related to spectral mask. Based on some reasonable comparison of these two sections it appears to simply be a duplication of information.	Comment Type <b>TR</b> Comment Status <b>D</b> A standardized ED mechanism cannot rely on RSSI which is not quantitatively specified and has no accuracy requirement. RCPI is needed for uniform ED operation within a DSE BSA
lggestedRemedy	SuggestedRemedy
Remove the additional changes made to clause 17.3.9.2. If there is some distinction made	Change "RSSI" to "RCPI".
with these changes then I suggest incorporating them into Annex I rather than creating what appears to be a duplication of information that is subject to synchronization issues in the future.	Proposed Response Response Status W PROPOSED REJECT. RSSI is currently used in clause 17 for CCA. 11y D1.0 maintains
oposed Response Response Status W	this approach.
PROPOSED ACCEPT IN PRINCIPLE. CID 444 removes them from Annex I, (informative) which should be requirements from regulation, not default PHY behavior. Default PHY requirements about the approximation of the approximatio	C/ 17 SC 17.5.5.9.2 P 36 L 1 & 1 # 267
requirements should be specified uniquely in PHY clauses.	Comment Type TR Comment Status D
17         SC 17.3.9.2         P 30         L 25         #         2071           ephens, Adrian	A standardized ED mechanism cannot rely on RSSI which is not quantitatively specified and has no accuracy requirement. RCPI is needed for uniform ED operation within a DSE BSA
mment Type TR Comment Status X	
	SUGGESTEGRETIEGV
I remember the discussion in the group about what "more stringent" means. As I remember it, the intent of the resolution was to require the actual mask to be the more	SuggestedRemedy Change "RSSI" to "RCPI", 3 places in table at line 1 and two places in table at line 16.
I remember the discussion in the group about what "more stringent" means. As I remember it, the intent of the resolution was to require the actual mask to be the more stringent of regulatory and default masks at all frequency points.	Change "RSSI" to "RCPI", 3 places in table at line 1 and two places in table at line 16.
remember it, the intent of the resolution was to require the actual mask to be the more stringent of regulatory and default masks at all frequency points. The outcome in D3.0 is different. Provided that one of the regulatory mask points is more stringent than the default, the entire regulatory mask will be used, even if all its other	
remember it, the intent of the resolution was to require the actual mask to be the more stringent of regulatory and default masks at all frequency points. The outcome in D3.0 is different. Provided that one of the regulatory mask points is more stringent than the default, the entire regulatory mask will be used, even if all its other points are more relaxed.	Change "RSSI" to "RCPI", 3 places in table at line 1 and two places in table at line 16. Proposed Response Response Status W PROPOSED REJECT. RSSI is currently used in clause 17 for CCA. 11y D1.0 maintains
remember it, the intent of the resolution was to require the actual mask to be the more stringent of regulatory and default masks at all frequency points. The outcome in D3.0 is different. Provided that one of the regulatory mask points is more stringent than the default, the entire regulatory mask will be used, even if all its other points are more relaxed. gestedRemedy	Change "RSSI" to "RCPI", 3 places in table at line 1 and two places in table at line 16. Proposed Response Response Status W PROPOSED REJECT. RSSI is currently used in clause 17 for CCA. 11y D1.0 maintains this approach.
remember it, the intent of the resolution was to require the actual mask to be the more stringent of regulatory and default masks at all frequency points. The outcome in D3.0 is different. Provided that one of the regulatory mask points is more stringent than the default, the entire regulatory mask will be used, even if all its other points are more relaxed. ggestedRemedy Replace with something like: "In the absence of a regulatory mask, use the mask defined	Change "RSSI" to "RCPI", 3 places in table at line 1 and two places in table at line 16.         Proposed Response       Response Status       W         PROPOSED REJECT. RSSI is currently used in clause 17 for CCA. 11y D1.0 maintains this approach.         Cl A       SC A.4.10       P 35       L 54       # 2003
remember it, the intent of the resolution was to require the actual mask to be the more stringent of regulatory and default masks at all frequency points. The outcome in D3.0 is different. Provided that one of the regulatory mask points is more stringent than the default, the entire regulatory mask will be used, even if all its other points are more relaxed. <i>ggestedRemedy</i> Replace with something like: "In the absence of a regulatory mask, use the mask defined here. In presence of a regulatory mask, the device shall meet both the requirements of the regulatory mask and the mask defined here -i.e., its emissions shall be no higher at any frequency offset than the minimum of the values specified in the regulatory and default	Change "RSSI" to "RCPI", 3 places in table at line 1 and two places in table at line 16.         Proposed Response       Response Status       W         PROPOSED REJECT. RSSI is currently used in clause 17 for CCA. 11y D1.0 maintains this approach.         C/ A       SC A.4.10       P 35       L 54       # 2003         Chaplin, Clint
remember it, the intent of the resolution was to require the actual mask to be the more stringent of regulatory and default masks at all frequency points. The outcome in D3.0 is different. Provided that one of the regulatory mask points is more stringent than the default, the entire regulatory mask will be used, even if all its other points are more relaxed. ggestedRemedy Replace with something like: "In the absence of a regulatory mask, use the mask defined here. In presence of a regulatory mask, the device shall meet both the requirements of the regulatory mask and the mask defined here -i.e., its emissions shall be no higher at any frequency offset than the minimum of the values specified in the regulatory and default masks."	Change "RSSI" to "RCPI", 3 places in table at line 1 and two places in table at line 16. Proposed Response Response Status W PROPOSED REJECT. RSSI is currently used in clause 17 for CCA. 11y D1.0 maintains this approach. C/ A SC A.4.10 P 35 L 54 # 2003 Chaplin, Clint Comment Type TR Comment Status X There is an editor's instruction here to add entries into a table. However, the text here
remember it, the intent of the resolution was to require the actual mask to be the more stringent of regulatory and default masks at all frequency points. The outcome in D3.0 is different. Provided that one of the regulatory mask points is more stringent than the default, the entire regulatory mask will be used, even if all its other points are more relaxed. ggestedRemedy Replace with something like: "In the absence of a regulatory mask, use the mask defined here. In presence of a regulatory mask, the device shall meet both the requirements of the regulatory mask and the mask defined here -i.e., its emissions shall be no higher at any frequency offset than the minimum of the values specified in the regulatory and default masks."	Change "RSSI" to "RCPI", 3 places in table at line 1 and two places in table at line 16.         Proposed Response       Response Status       W         PROPOSED REJECT. RSSI is currently used in clause 17 for CCA. 11y D1.0 maintains this approach.       CI A SC A.4.10       P 35       L 54       # 2003         Chaplin, Clint       Comment Type       TR       Comment Status X       There is an editor's instruction here to add entries into a table. However, the text here does not contain any entries to be added.
remember it, the intent of the resolution was to require the actual mask to be the more stringent of regulatory and default masks at all frequency points. The outcome in D3.0 is different. Provided that one of the regulatory mask points is more stringent than the default, the entire regulatory mask will be used, even if all its other points are more relaxed. <i>IggestedRemedy</i> Replace with something like: "In the absence of a regulatory mask, use the mask defined here. In presence of a regulatory mask, the device shall meet both the requirements of the regulatory mask and the mask defined here -i.e., its emissions shall be no higher at any frequency offset than the minimum of the values specified in the regulatory and default masks." <i>oposed Response</i> <i>Response</i> <i>Response</i> <i>Status</i>	Change "RSSI" to "RCPI", 3 places in table at line 1 and two places in table at line 16. Proposed Response Response Status W PROPOSED REJECT. RSSI is currently used in clause 17 for CCA. 11y D1.0 maintains this approach. Cl A SC A.4.10 P 35 L 54 # 2003 Chaplin, Clint Comment Type TR Comment Status X There is an editor's instruction here to add entries into a table. However, the text here does not contain any entries to be added. SuggestedRemedy If there are entries to be added, put those entries into the draft. If there are no entries to

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general		
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn		Page 16 of 19
SORT ORDER: Clause, Subclause, page, line	SC <b>A.4.10</b>	7/19/2007 3:33:36 PM

C/ A SC A.4.17 P 48 L 5 # 2 "Palm, Stephen"	434 C/ Annex SC Annex D P 40 L 12 # 2044 Myles, Andrew
Comment Type TR Comment Status D This clause does not have explanatory text	Comment Type TR Comment Status X The definitions of various parameters uses the clause "The capability is disabled otherwise
SuggestedRemedy Add text to introudce the clause	However, the definition provides semantics rather than describing a capability and so the "The capability is disabled otherwise" makes no sense
Proposed Response Response Status W PROPOSED REJECT. In REV-ma Annex A.4, none of the prior clauses have e text.	explanatory In each case, properly define the semantics in the "otherwise case" <i>Proposed Response Response Status</i> W
C/ A SC A.4.8 P 35 L 15 # 2 Erceg, Vinko Comment Type TR Comment Status D	2027 PROPOSED ACCEPT IN PRINCIPLE. Of the four occurrences of the phrase in Annex D text, two indicate capabilities and two are indications of requirements. The description text of dot11RegLocRequired and dot11DSERequired will be changed, and commas will be added after "disabled" in all occurrences.
Is "CCA-ED energy detect with OFDM CS" needed? SuggestedRemedy If not required, please remove "CCA-ED energy detect with OFDM CS" from the Proposed Response Response Status W PROPOSED ACCEPT.	e table. C/ Annex SC Annex D P40 L 19 # 2016 Ecclesine, Peter Comment Type TR Comment Status X All the dot11StationConfigTable elements and dot11LCIDSE Table entries should be read- only, as they can only be changed from their default values by a licensed operator.
Cl Annex SC A.4.17 P 37 L 57 #	2023       SuggestedRemedy         2023       Change dot11LCIDSERequired, dot11DSERequired and all accessible parts of dot11LCIDSETable from read-write to read-only.         4.12, after       Proposed Response       Response Status       W         PROPOSED ACCEPT.       PROPOSED ACCEPT.
SuggestedRemedy Per comment	Cl Annex SC Annex D P 40 L 28 # 2041 Myles, Andrew
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. CF15 requires CF10, so CF10 does not in the Status field when DSE4 is moved to A.4.12.	t need to be dot11RecLocRequired should be dot11RegLocRequired SuggestedRemedy

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general		Dama 47 af 40
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	C/ Annex	Page 17 of 19
SORT ORDER: Clause, Subclause, page, line		SC Annex D	7/19/2007 3:33:36 PM

### IEEE 802.11y D 3.0 3650-3700 MHz Operation in USA comments

### IEEE 802.11-07/2208r2

C/ Annex         SC Annex D         P 40         L 28         #         2047           Iyles, Andrew			
Ivles Andrew	C/Annex I SC Annex I P 60 L 1 # 272		
	"Kwak, Joe"		
comment Type TR Comment Status X	Comment Type TR Comment Status D		
The name of "dot11RgLocRequired" suggests that something is required.	Cannot delete "base" from 5th row of table. Baseline spec uses term licensed here. Base staion in 7 is directly related to mobile STA in 8.		
However the definition provides no hint as to what is required	SuggestedRemedy		
uggestedRemedy	Change 5th row of Table I.3 from "enabling station" to "licensed base/enabling station".		
Change the definition so that it is clear what is required	Proposed Response Response Status W		
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. the description text will be clarified or deleted	PROPOSED ACCEPT IN PRINCIPLE. Will use Tgy terms on new rows for ' Fixed STA and Enabling AP' and 'Dependent STA'		
Annex     SC Annex D     P 40     L 40     # 2048       Iyles, Andrew	C/ Annex I SC Annex I P 60 L 1 # 271 "Kwak, Joe"		
omment Type TR Comment Status X	Comment Type TR Comment Status D		
The name of "dot11DSERequired" suggests that something is required.	New rule 90.1333 does not prohibit IBSS operation, but merely defines restrictions on mobile to mobile communcations.		
However the definition only hints that the station is required to be enabled by an "enabling	SuggestedRemedy		
AP"	Change 3rd row of Table I.3 from "(IBSS) prohibited" to "(IBSS) restrictions".		
uggestedRemedy	Proposed Response Response Status W		
Change the definition so that it is clearer what is required	PROPOSED ACCEPT.		
Proposed Response Response Status W			
PROPOSED ACCEPT IN PRINCIPLE. the description text will be clarified	C/Annex   SC Annex   P60 L1 # 273		
27 Annex SC Annex D P 42 L 34 # 2008	— "Kwak, Joe"		
cclesine, Peter	Comment Type TR Comment Status D		
omment Type TR Comment Status X	DSE STAs may be mobile or portable.		
dot11LCIDSETable elements that are defined in RFC-3825 should be stored in the MIB big-	SuggestedRemedy		
endian, and the DESCRIPTIONs changed to say they are big-endian.	Change 6th row of Table I.3 from "dependent mobile station" to "dependent mobile/portable station".		
uggestedRemedy	Proposed Response Response Status W		
Alter DESCRIPTIONs of dot11LCIDSELatitudeResolution, dot11LCIDSELatitudeInteger, dot11LCIDSELatitudeFraction, dot11LCIDSELongitudeResolution, dot11LCIDSELongitudeInteger, dot11LCIDSELongitudeFraction, dot11LCIDSEAltitudeType, dot11LCIDSEAltitudeResolution, dot11LCIDSEAltitudeInteger,	PROPOSED ACCEPT IN PRINCIPLE. Will use Tgy terms on new rows for ' Fixed STA and Enabling AP' and 'Dependent STA'		
dot11LCIDSEAlitiudeFraction, and dot11LCIDSEDatum per comment.			

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general		Dama 40 af 40	
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	C/ Annex I	Page 18 of 19	
SORT ORDER: Clause, Subclause, page, line		SC Annex I	7/19/2007 3:33:37 PM	

7/ Annex I SC Annex I P 60 L 1 # 274 Kwak, Joe"	C/ General SC General P1 L0 # 1005
Comment Type <b>TR</b> Comment Status <b>D</b> Table I.3 modifications require change to last reserved row.	Comment Type ER Comment Status D There seems to be an inconsistent use of TRUE/FALSE nomenclature. There are several locations in the document that previously read "true" that have been changed to "1", and similarly for "false" and "0", but not all of them were changed, and there doesn't appear to
Modify last row of table to reserve values 11-255.	any good reason for which ones changed and which ones didn't.
roposed Response Response Status W	SuggestedRemedy
PROPOSED ACCEPT. Really 14-255 after 11k and CIDs 272 and 500.	Make the use of "true/false", or "1/0", consistent throughout the document.
Image: Annex J     SC Annex J     P 62     L     # 11       Amann, Keith"	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Accepted in Principle based on discussion in 07/0674r2
Comment Type ER Comment Status D The title of table J.1 was undated to reflect the addition of the new frequency, but the an additional statement within the text of Annex J that states "The regulatory classes	
specified for 4.9 GHz and 5 GHz operation in the USA are enumerated in Table J.1" (802.11ma-D9.0, Annex J, Page 1151, line 34) which was not updated to correspond change. Although this statement is technically correct even with the 802.11y draft ch it becomes confusing that the new rows exist without a corresponding change here a	hange, The description of the DSE procedures need a rewrite to make them much clearer and
uggestedRemedy	SuggestedRemedy
Add additional editing instructions to update this statement in the base draft to reflect	the It is hard to know how to rewrite the procedures until the intent of the TG is more obvious
addition of the new frequency band.	Proposed Response Response Status W
Proposed Response Response Status W PROPOSED ACCEPT.	PROPOSED ACCEPT IN PRINCIPLE. Comment appears to be a generalization of Comment 2052 by same commenter, which only addresses 11.14. Accepting 2052 and doing the supporting message formats causes changes to other clauses.
D         SC D         P 44         L 29         # 2004           ypher, David	C/ General SC General P27 L 19 # 2042
comment Type TR Comment Status X	Myles, Andrew
The Datum field in the DSE LCI from figure 85q, the DSE registered location from Fi 112z, and the text of 7.3.2.49 all indicate that this is a 3-bit field rather than the 8-bit	gure dot11AssociateFailHoldTime is used three times in the document.
defined in RFC 3825. A previous comment 1206 from LB #104 was rejected when it proposed to expand it to 8-bits, so that 802.11y would use without modification to RF	Was
3825. From 11-07-673r3 (page 12), the approved change for this item did not includ changing the three-bit to 8-bit nor did it change the values from (07) to (0255).	
uggestedRemedy	Proposed Response Response Status W
Change 8-bit to three-bit and change (0255) to (0.7) Thus reflecting the fact that the datum is using only 3-bits (thus 8 possible values (07)).	PROPOSED ACCEPT.
roposed Response Response Status W	
PROPOSED ACCEPT IN PRINCIPLE. Commenter's email says "the simple fix is to change (0255) to (13) after the INTEGER for the Datum MIB element"	