Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Results of LMSC Ballot on Draft Standard 802.11 D5.0 - Comments on annexes

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			
	A.4.4.1	GMG	T	Y	Currently the entire MIB is specified to be	Make the Status of all items in PC15	
	11.4				mandatory for Standard Compliance.	Optional.	
					Since the MIB is not required for interoperability	-	
	A.4.4.1				between stations, this is considered far to restrictive.		
	PC15.1				Therefore its support should be optional, which		
	PC15.2				brings this standard more in line with the other 802		
	PC15.3				standards, none of which define the MIB to be		
					mandatory.		
	Annex				The intend of standardizing should be that when a		
	D				MIB is provided it should use the definitions defined		
					in the optional MIB.		
					-		
	A.4.4.1	WD	T	Y	Currently the whole MIB is specified to be	Make the Status of all items in PC15	
	11.4				mandatory for Standard Compliance.	Optional.	
					This is considered far to restrictive.		
	PC15.1				Sinse the MIB is not required for interoperability		
	PC15.2				between stations, its support should be optional.		
	PC15.3				This is also more in line with the other 802		
					standards, none of which define the MIB to be		
	Annex				mandatory.		
	D				By defining the MIB to be optional, the intend of		
					standerdizing its use when implemented is met,		
					because it means; When a MIB is supported then this	S	
					is to be its definition.		
	A.4.5	vh	E		The item identification column is inconsistent with	Change in the Item column all	
					the majority of other MIB item identifications. The	occurrences of "14." into "FH".	

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Soa	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
Seq. #	number	voter'	type	of	Comment/Rationale	Recommended change	Disposition/Reduttai
"	number	s ID	E, e,	NO			
		code	T, t	vote			
					change in the next column will make it will make	Change in the status column all	
					consistent	occurrences of 14.2 into FH2	
	A.4.5	vh	E		The definition of the option of 2 Mbit/s is not	Replace FH2 (prior called 14.2) into	
					specified according to what I understand as the rule.	the following 2 rows:	
					The next column will bring correction	FH2.1//TXVECTOR parameter:	
						PLCPBITRATE= 1//14.2.2.2//M//yes * FH2.2//TXVECTOR	
						parameter:PLCPBITRATE=2//14.2.	
						2.2//O//yes no	
						·	
						Change in the status column all	
						occurrences of FH2 (prior called	
		a p	-	3.7	E W I DWW DVGG I	14.2) into FH2.2	
	A.4.5	SB	Е	N	For consistency Frequency Hopping PHY PICS items should have the formFHxx rather than 14.xx. Support	Renumber itemsFHxx; suggest grouping related items - such as 1M	
					column should have the form Yes No I for	PMD such that the item numbering is	
					mandatory items.	FHxx.yy	
					•	3,3	
						Support column should have the form	
						Yes □ No □ for mandatory items.	
	A.4.5	SB	t	N	Item 14.2 'TXVECTOR parameter: PLCPBITRATE' is	Change item to Optional (O)	
					marked as being mandatory. It is actually optional in the		
					body of the standard (14.2.2.2).		
	A.4.5	SB	e	N	Grouping of items and tabulation in FH and IR PICS	Bring style into line.	
	A 4 77	1	TE:		needs to be addressed The item identification column is inconsistent with	Change in the Item column all	
	A.4.7	vh	E		the majority of other MIB item identifications. The	occurrences of "16." into "IR".	
					change in the next column will make it will make	Change in the status column all	
					consistent	occurrences of 16. into IR	
	A.4.7	vh	E		Non conventional use in row IR23	Change C: in the status column into	

page 2

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

	<u> </u>	coue	1, ι	vote			
Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
						IR5a	
	A.4.7	vh	e		The first item is included as part of the header	Remove the attribute header from this row	
	A.4.7	SB	Е	N	For consistency Infra Red PHY PICS items should have the form IRxx rather than 16.xx. Support column should have the form Yes□ No□ for mandatory items.		
	A.4.7	SB	t	N	Regarding IR PICS items 16.25 and 16.26. My understanding is that you can conform to emitter radiation mask 1, or 2 (but you must conform to one or the other). In this case the correct PICS status is O.1 for both items rather than M.1.	Change status from M.1 to O.1 for both items.	
	A.4.7	SB	t	N	IR PICS item 16.23 is marked a status C:M. I think this item is conditional on 16.5a (should be renamed item IRxx as noted in a separate comment).	Change status to 16.5a:M (Change 16.5a to IRxx when PICS reformatted)	
	A.4.7	SB	Е	N	Style of IR PHY is very different to MAC, FH and DS.	Bring style into line.	
	A.4.7	SB	Е	N	I seem to have spurious items 16.1 and another row with no reference in the IR PICS between items 16.34 and 16.35	Delete spurious rows.	
	A4.5	JMZ	t		The FH PHY PICSProforma does not make it clear that support for any given regulatory domain is optional. The implication is that all N of them must be implemented in any conformant device. This is a ridiculous requirement.	Correct the PICS to indicate that support for any given regulatory domain is optional.	
	A4.7	PMK	e		Item 16.34. This item is interrupted by a duplication of	Delete the second iteration of item	

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

<u>. </u>		coae	1, ι	vote			
Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
					the write-up on item 16.1	16.1 and connect the two parts of item 16.34	
	Annex A.4.4.1 PC8.2 6.1.3 9.8	GMG	Т	Y	The MSDU ordering provisions have been included in this standard to provide an optional alternative fo those applications that do require strictly ordering service, for those cases where the type of frame reordering introduced by the Power Management buffering provisions will cause a problem. The intent of this provision was to have an alternative available, but it would be an option that would not affect the normal implementation. However the PICS does not list this provision as optional. Therefore these sections should be deleted, or it should be made clear in the text that this is optional and not mandatory functionality.	OR Mark this functionality as optional.	
	Annex A.4.4.1 PC8.2 6.1.3 9.8	WD	T	Y	The MSDU ordering provisions were included in thi standard to provide an optional alternative method for those cases where the type of frame reordering introduced by the Power Management buffering provisions would yield a problem. Partly this statement was meant to end discussions o the question whether the re-ordering characteristics would comply to 802 frame reordering requirements. The intend of this provision was to have an alternative available, but it would be an option that would not affect the normal implementation. However the subject sections and the PICS does not list this provision as optional. Last thing I heard was that 802 is changing its requirement in this respect. Therefore these sections should be deleted, or at leas	in Annex. A. OR Mark this functionality as optional. n	

Comment/Rationale

Recommended change

Disposition/Rebuttal

beq.	Clause	your	Ciliii	I alt	Comment/Rationale	Recommended change	Disposition/Reductar
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			
			, , , ,				
Seq.	Clause	vour	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			***************************************
.,	number	s ID	E, e,	NO			
		code	T, t				
		code	1, ι	vote			
					it should be made clear in the text that this is		
					optional and not mandatory functionality.		
	Annex	MAF	T	Y	The strictly ordered service class wasincluded in this	Change PC8.2 from status "M" to	
	A.4.4.1				standard to provide an alternative methoto handle	status "O". Add a sentence to 6.1.3	
	6.1.3				those cases where the type of frame reordering	and 9.8 to indicate the strictly	
	9.8				possible when usingPower Management buffering	ordered service is optional.	
	7.0				might causea problem for a higher layer protocol	0140104 801 (100 15 0 p 1101411	
					inight caused problemior a higher layer protocol	Note that, in 6.2.1.3, the	
					The intent of this prevision was towaride a strictly	transmission status of "unavailable	
					The intent of this provision was toprovide a strictly		
					ordered alternative for the applications which may	service class" is already specified to	
					require one, but not to make this facility mandatory	be returned if strictly ordered	
					for all implementations. Unfortunatelythe cited	service is requested but is not	
					sections and the PICSdo not list this facility as	available.	
					optional.		
					·		
	Annex	MAF	Т	Y	The whole MAC management information base is	The recommendation is to change	
	A:				mandatory according to this PICS entry. This is the	the "status" of PC15, PC15.1,	
	A.4.4.1				opposite from the other 802 MAC/PHY standards,	PC15.2 and PC15.3 from "M" to	
	item				where the management facilities are either wholly or		
	PC15				mostly optional. In addition, there is no recognition		
	1010				of the options in the protocol — the management	supported by separate object classes.	
					facilities for WEP (privacy) and the point	for WEP and PCF, and to tie these	
					coordination function, are mandatory even though	object groups to the optional WEP	
					both of these facilities are optional according to both the text and the PICS.	and PCF functionality respectively.	
	A	WD	E			Duonido the muon !!! t!	
	Annex	WD	Ľ		aProbeDelay	Provide the proper specification in	
	C				What is the valid range of this value?	the PHY MIB.	
	p.334				Isn't this determined by the PHY MIB parameter that		
	section				specifies how long it takes to switch a channel.		
	13				Although I could not find such a PHY MIB value.		
	Annex	MAF	Т	Y	The MAC protocol is described solely in English	Include a precise description of the	
	C				prose, supported by a few diagrams. There is no	desired MAC behavior, either as a	
	(also		l	1	formal description of the protocol behavior, either as	· · · · · · · · · · · · · · · · · · ·	

Seq. Clause your Cmnt Part

	Novem	ber 19	96			doc.: IEEE P802.11-96/135-6			
Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal		
#	number	voter'	type	of					
		s ID	E, e,	NO					
		code	T, t	vote					
Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal		
#	number	voter'	type	of					
		s ID	E, e,	NO					
		code	T, t	vote					
	relates				state machines or as procedures in a programming	in a procedural language (acceptable			
	to				language. This is a major impediment to	but less desriable). The author of			
	clauses				interoperable implementations of the standard,	this comment will bring to the 802			
	8–11)				especially by people who did noparticpate in the	Plenary meeting in Vancouver a set			
					development of the standard. Thisommenter	of state machines which are an			
					believes that, by D5.0, there is a great degree of	attempt to define the MAC behavior			
					common understanding of the desired MAC behavio	r informally described in D5.0. These			
					among the people who have been active in the MAC	state machines, which will be in			
					group for the past several years, and that the	submission P802.11/96-132, could be			
					protocol is bothimplementable and useful. However,	incorporated directly to become the			
					there is little chance that a person (especially one for	contents of Annex C.			
					whom English is not their native language) who has				
					not been involved in a recent meeting of the 802.11	The simplest way to incorporate a			
					MAC group, will interpret all of the text in clauses 8	formal description of the MAC			
					through 11 in the same manner that the authors of	protocol is to insert the state			
					that text, and the voters who approved D5.0,	machines into the (presently empty)			
					intended.	Annex C – MAC State Machines and			
						to change this from an informative			
					Rather than attempt to catalog incomplete,	annex to a normative annex. This			
					ambiguous, orpotentically conflicting text in the	requires far less restructuring of the			
					MAC description, this commenter prefers to	text in clauses 8 through 11 than			
					concentrate on the development of a set of state	placing the state machines in one or			
					machines which provide a more precise description	more of those clauses. A statement			
					of the desired behavior. Some of the areas which are	•			
					most likely to be misinterpreted include the	document and/or in the introductory			
					relationship among the various long-period interval	s paragraphs of each clause which			

(beacon interval, contention free repetition rate, dewll time, listen interval); the interaction of

indeterminite duration events (such as delivery of a

fragmented MSDU when one or morMPDUs

require retransmission) with time boundaries dewll

boundaries, beacons, contention free periods or

contention free medium occupancy limits); and the

describes MAC operation than the

formal definition is the state

machines in Annex C, and in the

event of a conflict between the text

and the state machines the state

machines take precedence.

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			
					expected behavior at station and access point for		
					power save poll generation and response.		
					(As an example, read clause 9.2.5.2, then try to find		
					all the exceptions and/or modifications to theackoff		
					rules "defined" therein — this is not a particularly		
					bad definition, but if all stations do not implement		
					backoff in an identical manner, the distributed		
					coordination function upon which this entire protoco		
					is based will not operate fairly, and may not operate		
					correctly! A backoff function in a MAC control state		
					machine can provide a single place where all of the		
					relevant backoff behavior, can be clearly defined.)	70.4	
	Annex	SB	t	N	There are some inconsistencies between the MIB	If the ASN.1 is to take precedence over	
	D				definitions in the body of the standard and the ASN.1	the standard then make it correct.	
	11.4,				definition, particularly in the case of default values. The		
					standard says that the ASN.1 definition takes	Correct all inconsistencies located and	
					precedence, but in most cases it seems that this is where	review thoroughly for others.	
					the error is. My guess would be that the ASN.1 MIB is		
					lagging the standard by at least one draft.		
					Harry one the items that I have anothed them may be		
					Here are the items that I have spotted - there may be		
					more:		
					aRTSThreshold default value is 3000 in 11.4 and 2304		
					in the ASN.1 definition. The ASN.1 definition is		
					incorrect since this is the maximum MSDU size and the		
					fragmentation threshold is over the MPDU which has		
					headers and possibly WEP.		
					neaders and possibly well.		
					AATIMWindow has a default value in 11.4 of 4Kus and		
					in the ASN.1 definition of 1000us. Again the ASN.1		
					definition is incorrect.		

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

G	Classia		C4	D4	C	D	D'
Seq.	Clause number	your voter'	Cmnt	Part of	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	s ID	type E, e,	NO			
		code	T, t	vote			
		coue	1, ι	VOLC			
					ACFPRate is defined in 11.4 as a number of DTIM		
					intervals between beacons that start a CF Period. The		
					default is 1 (one). In the ASN.1 definitionaCFPRate is		
					defined as the number of beacon intervals between		
					beacons that start a CF Period. The ASN.1 definition is		
					inconsistent with the body of the standard -both 9.3.1		
					and the MIB definition - and is incorrect.		
					and the WID definition and is incorrect.		
					ACFPMaxDuration has different definitions in 11.4 and		
					in the ASN.1. The definition in 11.4 is correct and		
					needs to be moved to the ASN.1		
					aMaxRate has different definitions and default values in		
					11.4 and in the ASN.1. The definition in 11.4 is correct		
					and needs to be moved to the ASN.1		
					aFragmentationThreshold has a correctdefualt value in		
					11.4 of 2346 and an incorrect default value in the		
					ASN.1 of 2304.		
					aShortRetryLimit has a default value of 7 in 11.4 and is		
					related to frames shorter than or equal to		
					aRTSThreshold. In the ASN.1 definition it takes a		
					default value of 5 and applies to frames shorter than or		
					equal to aFragmentationThreshold in length. The 11.4		
I					definition is correct and consistent with clause 9.2.5.3.		
					aLongRetryLimit has a default value of 4 in 11.4 and is		
					related to frames longer thanaRTSThreshold. In the		
					ASN.1 definition it takes a default value of 7 and applies		
					to frames longer than a Fragmentation Threshold in		
					length. The 11.4 definition is correct and consistent with		

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Seq.	Clause	vour	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of		-	
		s ID	E, e,	NO			
		code	T, t	vote			
					clause 9.2.5.3. aACKTimeout has different definitions in 11.4 and in		
					the ASN.1 including different reference points - PHYTXEND.confirm in 11.4 andPHYDATA.confirm in the ASN.1. There is not a lot of difference here - but things need straightening out.		
	Annex D A.4.4.1 11.4	WD	Т	Y	Currently the whole MIB is specified to be mandatory for Standard Compliance. This is considered far to restrictive. Sinse the MIB is not required for interoperability between stations, its support should be optional.	Make the Status of all items in PC15 Optional.	
	PC15.1 PC15.2 PC15.3				This is also more in line with the other 802 standards, none of which define the MIB to be mandatory. By defining the MIB to be optional, the intend of standerdizing its use when implemented is met, because it means; When a MIB is supported then thi is to be its definition.	s	
	Annex D 11.4 and	MAF	Т		The object groups in 11.46SMT in 11.4.2.1.1,0MAC in 11.4.2.2.1) are defined according to ISO/IEC 10165–2, whereas the Annex D uses SNMP v2. Thes should be consistent (unless 11.4.2.x is removed due to another comment).	Use SNMPv2 in 11.4.2.x	
	Annex D 11.4 and	MAF	t		There are a number of management objects which are actually derived values needed by the MAC, but not useful, nor desirable, as managed objects. This commenter believes that most of these objects exist because the procedures to derive the values (mostly from the characteristics of the PHY in use) are	Remove these from the MIB. Replace with functional or procedural definitions in the relevant clauses and/or Annex C.	

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

			1				
Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			
					difficult to specify using the text approach of clauses		
					8 through 11. These derived values are defined as		
					functions in the state machines to be submitted as		
					document P802.11/96-132, and should be removed a		
					managed objects whether or not those state machine		
					are incorporated into the standard. These		
					unnecessary/undesriable objects include:		
					aMaxMPDUTime		
					aCTSSize		
					aACKSize		
					aACKTimeout		
	Annex	MAF	E	{na}	aCurrenAPMACAddress and CurrentBSSID are	RemoveaCurrentAPMACADDress,	
	D				really the same thing, "current AP MAC address" is	replace any references to this with	
	11.4				an artifact from an earlier version of the MAC	references to a Current BSSID	
	and						
	Annex	MAF	t		actInitializeSMT andactInitializeMAC are rather	Recommend deleting these actions,	
	D				dangerous — normally an external network	otherwise restrict their applicability	
	11.4				management entity cannot reinitialize the MAC or	and effect to times when not	
	and				SMT during operation of the station. If these are	associated.	
					really necessary, their applicability should be		
					restricted to occur when not associated (or to force		
					an end to all active communication and require		
					reassociation before communication can resume).		
	Annex	MAF	t		aKnownAPs table and GroupAddresses table may	make both of these tables read-only	
	D 11.4				be worth having as readable objects, but should not	removeactAddGroupAddress and	
	and				have read-write access. These are not things which	actDeleteGroupAddress	
					should be set via an external management entity —		
					the APs are discovered by the station using the		
					specified scanning procedures while the group		
					addresses are determined by higher layer protocols.		
	Annex	GMG	T	Y	Currently the entire MIB is specified to be	Make the Status of all items in PC15	
	D				mandatory for Standard Compliance.	Optional.	
	A.4.4.1				Since the MIB is not required for interoperability		

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
	11.4 A.4.4.1 PC15.1 PC15.2 PC15.3				between stations, this is considered far to restrictive. Therefore its support should be optional, which brings this standard more in line with the other 802 standards, none of which define the MIB to be mandatory. The intend of standardizing should be that when a MIB is provided it should use the definitions defined in the optional MIB.		
	Annex D. 11.2.2.1 & 11.4.4.1 .27 &	WD	t		The specification of the ATIM window is inconsisten between the subject sections. Section 11.4.4.1 specifies 4Kusec Annex D specifies 1000, while the units are not specified. Suggest to specify 4Kusec, which will suit the DS and FH Phy.	t Update Annex. D accordingly.	
	Annex. C p.312	WD	e		MIB-header Various imported definitions are not used. Suggest to remove those that are not used. SNMPv2-PARTY-MIB is not a valid standard anymore (its status is 'Historic'). The 802.11 MIB should not refer to that one.	Suggest to remove the definitions that are not used.	
	Annex. C p.315	WD	E		aActingasWirelessAPStatus This is a characteristic of a system, not of the MAC layer. The MAC layer may not be aware of this at all. In addition it only seems to be a GET parameter.	Remove the MIB definition for this attribute.	
	Annex. C p.316	WD	E		aScanMode Is it not up to the vendor's implementation to determine what scan mode is used? Why must the user be given	Remove the MIB definition for this attribute.	

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			
					management control over this?		
	Annex.	$\mathbf{W}\mathbf{D}$	E		aScanState	Remove the MIB definition for this	
	C				This is a very trancient attribute. It would depend on	attribute.	
	p.317				pure luck for a management system to read this as		
					'true'.		
	Annex.	WD	T	y	According to the current PICS we should support a	The MIB and PICS should be	
	D				full MIB, even when we do not implement the option	s restructured to allow exclusion of	
	11.4				like WEP and PCF.	items associated with optional	
					This is clearly not acceptable.	functionality that is not implemented.	
	PC15.1				The MIB and PICSproforma should be restructured		
	PC15.2				such that it allows for exclusion of the MIB items tha	t This relates in particular to the WEP	
	PC15.3				are associated with optional functionality in the	and PCF functionality.	
					standard.		
			E		The prime purpose of the MIB definitions is to	The MIB and PICS should be	
					provide a common understanding of objects for	restructured to define subsets that are	
					Network Management and diagnostic purposes.	relevant for Network Management and	
					However the vast majority of the MIB definitions are	e Diagnostic purposes.	
					not relevant for Network Management purposes.		
					Part of the currently defined MIB (especially the	In particular this relates to the	
					PHY MIBs) are primarily there to provide relevant	following subset.	
					PHY dependent parameters for the MAC. These in		
					particular are not relevant for Network Managemen	t Section 11.4.3.2.2agCountergrp	
					purposes.		
					Furthermore the control of most controllable MIB	aMaxRate, aManufacturerID,	
					parameters will be very implementation specific, and		
					do fully depend on the actual configuration and	aPrivacyOptionImplemented.	
					configuration mechanism provided by the vendor of	•	
					the end product.		
					It would be desirable to specify a MIB subset that is		
					relevant for Network Management purposes,		
					especially those that provide statistic information.		
	p.314	$\mathbf{W}\mathbf{D}$	E		agStationConfigGrp	Create separate group for the MIB	
	5.2.3				Items related to Contention Free operation (CFPRate,	definitions relevant for this option	

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
					aCFPMaxDuration,aMediumOccupancyLimit, and maybeaCFPollable?) should be in a separate optional group	group, containing: aCFPRate, aCFPMaxDuration, aMediumOccupancyLimit, and maybe aCFPollable	
	p.315	WD	E		aBeaconPeriod What is the valid range of this value? "kmicroseconds" should be Kmicroseconds" (3x).	"kmicroseconds" should be "Kmicroseconds" (3x). Specify the valid range.	
	p.316	WD	E		aPassiveScanDuration What is the valid range of this value? "kmicroseconds" should be Kmicroseconds".	"kmicroseconds" should be "Kmicroseconds" (3x). Specify the valid range.	
	p.316	WD	E		aListenInterval What is the valid range of this value?	Specify the valid range.	
	p.316	WD	Е		aCFPMaxDuration What is the valid range of this value? "1024 microseconds" should be Kmicroseconds" (consistency).	"change 1024 microseconds" into "Kmicroseconds"	
	p.317	WD	E		aDTIMPeriod What is the valid range of this value?	Specify the valid range.	
	p.318	WD	E		aMaxMPDUTime What is the significance of this for management purposes? The MAC can use a derived value from the PHY MIB.	Remove the MIB definition for this attribute.	
	p.318	WD	E		aATIMWindow What is the valid range of this value? There are no units specified. The default value for thisparmeter is far to low, aassuming units ofusec.	Specify the valid range. Specify the units to beKmicroseconds. Specify a default value for this parameter of either zero (no Power Management) or 4Kmicroseconds.	
	p.318	WD	E		aMediumOccupancyLimit What is the minimum value? "1024 microseconds" should be Kmicroseconds" (consistency).	Specify the minimum value. "1024 microseconds" should be "Kmicroseconds"	

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
	p.320	WD	E		aAuthenticationAlgorithm Typo: "algorithm <u>s</u> " should be "algorithm".	Typo: "algorithm <u>r</u> " should be "algorithm".	
	p.322	WD	E		aCurrentAPMACAddress andaCurrentBSSID What is the difference between these two objects? Do we really need these two?	Suggest to delete aCurrentAPMACAddress	
	p.323	WD	E		aKnownAPs table What is the significance of this for management purposes? And why does it have ReadWrite access?	Remove the MIB definition for this attribute.	
	p.326	WD	E		aExcludeUnencrypted Default should be specified. (presumably default is false	Default should be specified to be false.	
	p.330	WD	E		aGroupAddress Typo: "address <u>es</u> " should be "address". "from" should be "for"?	Typo: "addres <u>es</u> " should be "address". "from" should be "for	
	p.332	WD	E		aCTSSize What is the significance of this for management purposes? It is a derived parameter from the PHY MIB, so why is it needed?	Remove the MIB definition for this attribute.	
	p.332	WD	Е		aACKTimeout What is the significance of this for management purposes? It is a derived parameter from the PHY MIB, so why is it needed?	Remove the MIB definition for this attribute.	
	p.332	WD	Е		aMaxRate The description is incorrect (see also 11.4.4.2.21). "current" should be "maximum"? Should be in units of 100kbit/s?	"current" should be "maximum" Should be in units of 100kbit/s.	
	p.332	WD	E		aRTSThreshold The default value (2305) is wrong. A MPDU can be up to 2346 octets long. Section 11.4.4.2.22 specifies this as 3000.	Set default to 3000	
	p.333	WD	E		aShortRetryLimit The description referes to aFragmentationThreshold; this should beaRTSThreshold?	Change a Fragmentation Threshold into a RTSThreshold. Specify the valid range.	

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
					What is the valid range of this value?		
	p.333	WD	E		aLongRetryLimit The description referes to aFragmentationThreshold; shouldn't this beaRTSThreshold? What is the valid range of this value?	Change a Fragmentation Threshold into a RTSThreshold. Specify the valid range.	
	p.334	WD	e		aMinProbeResponseTime "kmicroseconds" should be <u>K</u> microseconds".	"kmicroseconds" should be "Kmicroseconds".	
	p.334	WD	e		aMaxProbeResponseTime "kmicroseconds".	"kmicroseconds" should be " <u>K</u> microseconds".	
	p.334 & 335	WD	e		aMaxTransmitMSDULifetime What is the valid range of this value? "kmicroseconds" should be Kmicroseconds".	Specify the valid range. "kmicroseconds" should be "Kmicroseconds".	
	p.335	WD	e		aMaxReceiveMSDULifetime What is the valid range of this value? "kmicroseconds" should be Kmicroseconds".	Specify the valid range. "kmicroseconds" should be "Kmicroseconds".	
	p.336- 340	WD	E		All counters (including p.326ICVErrorCount; see also top of p.314): It is better to define counters as Read-only. This is common practice in SNMP-based network management. Writing (resetting) a counter may interfere with an analysis done from another management station.		
	p.338	WD	Е		aFailedCount The "retrymax value" should be specified, as "aShortRetryLimit oraLongRetryLimit".		
	p.340	WD	E		aErrorCount When is this counter to be updated?		
	p.343 & 344	WD	E		aRecourceInfo table Why do these objects have ReadWrite access? Should		

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale be Read-only.	Recommended change	Disposition/Rebuttal
	p.346	WD	E		aSlotTime What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.346	WD	E		aPHYType The SYNTAX defines this as an Integer32, while the description defines this a an 8-bit integer. Please, define this as an enumerated integer.		
	p.346	WD	E		aSlotTime The description refers to various incorrect attribute names.		
	p.346 & 347	WD	E		aCCAAsmntTime What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.347	WD	E		aRxTxTurnaroundTime What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiplePHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
	p.347	WD	E		aTxPLCPDelay What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.347	WD	E		aRxTxSwitchTime What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.347	WD	Е		aTxRampOnTime What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.347	WD	E		aSIFSTime What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.347	WD	E		aRxRFDelay What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of	

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

			1,0				
Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
						no interrest for Management purposes.	
	p.347	WD	E		aRxPLCPDelay What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.347	WD	E		aRxTxTurnaroundTime The description refers to various incorrect attribute names.		
	p.347	WD	E		aSIFSTime The description refers to various incorrect attribute names.		
	p.347 & 348	WD	E		aTxRFDelay What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.348 & 349	WD	E		aTxRampOffTime What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
•	p.349	$\mathbf{W}\mathbf{D}$	E		aPreambleLngth	Remove this definition from Annex	

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
					What is the significance of this for management purposes?	D, as it a PHY definition that is being defined for multiplePHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.349	WD	E		aPLCPHdrLngth What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.349	WD	E		aMPDUDurationFactor What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.349	WD	E		aAirPropagationTime What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.349	WD	E		aMPDUDurationFactor In what units is this to be specified?		
	p.349	WD	E		aAirPropagationTime In what units is this to be specified?		

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

		Coue	1, ι	vote			
Seq.	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
	p.349	WD	E		aTempType In what units is this to be specified?		
	p.350	WD	Т	Y	aCWmin What is the significance of this for management purposes? Further this parameter is still specified to be Get-REPLACE in the MAC MIB section 11.4, which should be GET only. This parameter is also in the PHY MIB, which is the correct place, because the parameter is different per PHY.	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes. It should be deleted from the MAC MIB, and its status should be GET only.	
	p.350	WD	T	Y	aCWmax What is the significance of this for management purposes? Further this parameter is still specified to be Get-REPLACE in the MAC MIB section 11.4, which should be GET only. This parameter is also in the PHY MIB, which is the correct place, because the parameter is different per PHY.	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes. It should be deleted from the MAC MIB, and its status should be GET only.	
	p.350	WD	E		aRegDomainsSuprt Values are not in-line with the definition of aRegDomainsSuprtValue (p.351).		
	p.351	WD	E		aRegDomainsSuprtValue The SYNTAX defines this as an Integer32, while the		

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
					description defines this a an 8-bit integer. Please, define this as an enumerated integer.		
	p.352 & 353	WD	E		aSuprtDataRatesRx Typo: "transmit' should be "receive". DEFVAL {NULL} ??.		
	p.353	WD	E		aPrefMaxMPDUFrgmntLngth The description refers to its own name in an incorrect way (_s!).		
	p.353 - 355	WD	E		agAntennaList What is the significance of this whole group for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.355 - 356	WD	E		agPhyAntennaGrp What is the significance of this whole group for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.357 - 359	WD	E		agPhyTxPwrGrp What is the significance of this whole group for management purposes? (Note: agPhyFHSSGrp not analyzed)	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.363	WD	E		aCCAModeSuprt	Remove this definition from Annex	

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
					What is the significance of this for management purposes?	D, as it a PHY definition that is being defined for multiplePHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.363	WD	E		aCurrentCCAMode What is the significance of this for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.363	WD	E		aCurrentChannel In what units is this to be specified? Please define.		
	p.363 - p.366	WD	E		aCCAModeSuprt What values? aCurrentCCAMode What values? aEDThreshold What values? aCurrentPowerState What values?		
	p.364	WD	E		aSynthesizerLocked What is the significance of this (group) for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			

Seq. #	Clause number	your voter' s ID	Cmnt type E, e,	Part of NO	Comment/Rationale	Recommended change	Disposition/Rebuttal
		code	T, t	vote			
	p.365 - 367	WD	E		agPhyPwrSavingGrp What is the significance of this (group) for management purposes?	Remove this definition from Annex D, as it a PHY definition that is being defined for multiple PHY's in section 13. The value is fixed per PHY, and is of no interrest for Management purposes.	
	p.366	WD	E		aDozeTurnonTime through agPhyPwrSavingGrpStatus. aDozeTurnonTime is defined as { agPhyPwrSavingGrpEntry 4 } while there is no '3'. This object and all following in the group should be renumbered.		