

Seq. #	Section number	your voter's id code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
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**Results of LMSC Ballot on Draft Standard 802.11 D5.0 -  
Resolutions for Comments on Clause 11**

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1	11	TLP	E		The author of this section bounces back and forth between singular and plural. The singular should be used when describing the behavior of an entity in isolation; the plural should be used when describing interactions with a set of entities. Constraints should be applied to each entity in the singular, since conformance is to the specification, and is applied to singular instances of equipment.	Edit as appropriate.  (The submitted revision-marked files contains such editing.)	Accepted
2	11.1.1	TLP	e		Clean up the descriptions; avoid bias toward specific forms of modulation (e.g., RF over IR)	Change the last part of the second sentence to read "... is transmitted to the PHY plus the transmitting station's delays through its local PHY from the MAC-PHY interface to its interface with the wireless medium (antenna, LED emission surface, etc.)."	Accepted

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3	11.1.1.1	TLP	e		"Ensure"ing anything is beyond the scope of a standard. This text should be written to reflect realistic expectations.	Change the second and third sentences to read "The AP shall initialize its TSF timer independently of any simultaneously-started APs in an effort to minimize the synchronization of the TSF timers of multiple APs.. The AP shall periodically transmit special frames called Beacons that contain a copy of its TSF timer to synchronize the other stations in a BSS. " and the last sentence to read "If a station's TSF timer is different from the timestamp in the received Beacon, the receiving station shall set its local timer to the received timestamp value."	Accepted
4	11.1.1.2	TLP	e		Clean up the referents.	Change the second sentence to read "Each station in the BSS shall transmit Beacons according to the algorithm described in this clause. Each station in an IBSS shall adopt the timing received from any Beacon or Probe Response which has a TSF value greater than its own TSF timer."	Accepted
5	11.1.1.2 2nd ¶	TLP	T	Yes	The last two sentences of 11.1.1.2 contradict each other. The first states that a STA hearing another IBSS will join that IBSS and adopt its parameters. The second states that a STA joining an IBSS shall set its parameters to prespecified initial values. Both constraints apply to a STA hearing another IBSS, but require inconsistent actions.	Rewrite to specify precisely whatever is the intended behavior.	<b>ACCEPTED:</b> The second paragraph here only applies to coalescing and has been moved to 11.1.4 and has been merged with the description there. (Check with TLP).
6	11.1.2	TLP	t		What minimum data rate within the PHY is required to meet this 4 $\mu$ s promise? No PHY is implied by the MAC; a 1 Hz ELF PHY is not precluded.	Specify the minimum PHY data rate for which this promise holds.	<b>ACCEPTED:</b> Added sentence to indicate that it is for PHYs of 1Mbit/sec or higher.
7	11.1.2.2	RM	T	Y	From the description of the IBSS beacon generation mechanism, it appears that multiple stations are likely to generate colliding beacons anytime that the medium is busy at TBTT. The	At each TBTT the station shall a) calculate a random delay uniformly distributed in the range between zero and	<b>ACCEPTED:</b> with modified text. (check with RM).

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					algorithm described in this section does not honor the usual practice of halting the backoff counter when the medium is sensed busy. In the worst case, the duration of an frame in progress may surpass TBTT $\times$ $\epsilon_{wmin}$ , causing all stations to send beacons.	twice a $\epsilon_{wmin}$ , b) wait for the period of the random delay <u>if</u> a reception is in progress <u>during the random delay period, begin the delay at the end of the random delay, extend the delay until the end of that</u> reception. c) if no Beacon has arrived during the delay period, send a Beacon. See Figure 55..	
8	11.1.2.2	WD	e			<b>Change BSS into IBSS</b>	<b>Accepted</b>
9	11.1.2.3	KC	t	Y	"... if the value of the adjusted timestamp is greater than the value of the station's TSF timer."  What kind of "greater than" is to be used here? These are counters that roll over. Is this just unsigned greater than over the number of bits in the field, or is it signed greater than for something that is assumed to never be more than 1/2 way around the clock, or what?	Specify exact comparison algorithm.	<b>ACCEPTED:</b> changed greater to later. (OK with KC)
10	11.1.2.3	TLP	e		It is the values, not the timestamps, that are adjusted.	Relocate the word "adjusted" to qualify "value" at both occurrences.	<b>Accepted</b>
11	11.1.2.3	TLP	T		$\pm 0.0025\%$ is four times the frequency accuracy of most crystals, which are typically $\pm 0.01\%$ devices. Anything better than $\pm 0.005\%$ typically requires temperature compensation and consequent power and expense. Is this $\pm 0.0025\%$ really necessary?	Resolve the question. A note detailing the rationale for the extra expense of temperature-compensated crystals might be in order.	<b>REJECTED:</b> This accuracy requirement is derived from the PHY specification.  (check with TLP)
12	11.1.3 10.3.2,	SB	t	N	Clause 11.1.3 states that:  <i>A station performs scanning when it has aScanState equal True. aDesiredSSID indicates the SSID which is to be scanned for, together with whether Infrastructure BSSs, Independent BSSs, or both, are to be included in the scan.</i>  Now 10.3.2.1 defines the MLMESCAN.request primitive which initiates a scan (this cannot be done by a MLMESET.request on aScanState since this is GET	Probably the easiest thing to do is to add the text to the 'effect of receipt'.  This request shall <u>update aDesiredSSID and aScanMode, and set aScanState true</u> initiate the scan process when the current transmission/reception is completed.  Some clarification changes might also be made to 11.1.3 to make the role of	<b>ACCEPTED:</b> Modified text to indicate that scanning is started as the result of the reception of an MLMESCAN.request primitive.  (check with SB)

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					<p>only). MLMESCAN.request includes several parameters that define the nature of the scan (some of these have corresponding MIB attributes such as aScanMode). So the intended activities on receipt of a MLMESCAN.request would seem to be to set certain MIB attributes and then change scan state.</p> <p>The problem is it doesn't actually say this anywhere. Either 10.3.2.1 should make reference to the scan related MIB attributes, or 11.1.3 should say that scanning is initiated by the receipt of a MLMESCAN.request.</p>	<p>MIB attributes and MLME primitives clearer</p>	
13	11.1.3 2nd ¶	TLP	e		<p>There are too many ambiguous pronoun back-referents in this paragraph.</p>	<p>Rewrite as indicated in the submitted revision-marked files, or equivalent.</p>	<p><b>Accepted</b></p>
14	<p>11.1.3.2, 11.3.1, 11.3.2, 11.3.3, 11.3.4, and also 8.1.1.2, 8.1.2.2, 8.1.2.3, 8.1.2.4</p>	MAF	t	(na)	<p><b>There is nothing specified, either procedurally or in the MAC MIB to define an upper bound on the response time for Management frames other than Probes. There is a risk that conformant implementations might not be interoperable in the absence of such a bound on the time before the responding station attempts to send Association Response frames, Reassociation Response frames, and Authentication frames (for the 2nd through last frames of any defined authentication sequence).</b></p> <p>The problem could occur in a case where an AP (or other responder STA in the case of Authentication sequences) is implemented in such a manner that it will never respond to one or more of these request types within the time that some STA implementation considers a reasonable maximum waiting time for such a response. For power-managed stations, waiting "forever" is a poor alternative. I strongly recommend that we apply the time limits already in the MIB for aMinProbeResponseTime and aMaxProbeResponseTime to the request/response exchanges for Association, Reassociation, and</p>	<p><b>Clause 11.3.1:</b></p> <p>A station shall associate with an Access Point via the following procedure:</p> <ul style="list-style-type: none"> <li>a) The station shall transmit an Association Request to an Access Point with which that station is authenticated.</li> <li>b) If an Association Response frame is received with status value of "successful", the station is now associated with the Access Point.</li> </ul> <p>If the Association Request fails for any reason, the station may scan for a different Access Point with which to attempt association. The station may</p>	<p><b>Partially ACCEPTED:</b> The changes related to the station were accepted and the text adopted.</p> <p><b>Responder requirements cannot be met.</b></p> <p><b>(check with MAF).</b></p>

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					<p>Authentication (for each step in the authentication sequence), as well as for Probe (already specified in 11.1.3.2.2). There also needs to be a constraint that the AP (or responder in the case of Probes and Authentication sequences in an IBSS) shall make its first attempt to transmit the response within aMinProbeResponse of receipt of a valid request. The requirement for conformance &amp; interoperability is to have an upper bound on the response time between successful receipt of the request and the first attempt to obtain control of the medium to transmit the response. With this time interval known, there is a basis for interoperability that allows local decisions at the stations as to how much longer (if any) to wait due to medium access delays, and whether to retry, look elsewhere, etc.</p> <p>A similar comment on D4.0 was declined (with commenter's agreement) at the July, 1996 meeting because the solution proposed therein was found to be incomplete; not because there was a finding that the cited problem did not exist. While the risk of non-interoperability among "sane" STA and AP implementations is small, sooner or later this type of incompatibility will occur if a time bound is not defined in the standard.</p> <p>There are two approaches to fixing this problem. One is to add new MIB attributes with minimum response time limits for each various management frame exchanges. The other is to re-use an existing response time MIB attribute, such as aMaxProbeResponseTime. The proposed text changes to the right use the later approach, since to this commenter there does not seem to be any compelling reason to need different response time bounds for different of the exchanges. Note that all</p>	<p><u> treat a period of at least aMaxProbeResponseTime duration following the transmission of an Association Request frame without receipt of any Association Response frames as a failure of the Association Request.</u></p> <p><b>Clause 11.3.2:</b></p> <p>An Access Point shall operate as follows in order to support the association of stations.</p> <p>a) Whenever an Association Request frame is received from a station and the station is authenticated, the Access Point shall transmit an Association Response with a status value as defined in clause <u>7.3.1.97.3-1.8</u>. <u>The Access Point shall make its initial attempt to transmit the Association Response frame soon enough after receipt of the Association Request frame that a successful transmission attempt will be complete within aMaxProbeResponseTime of the receipt of the request.</u> If the status</p>	
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					<p><b>of the referenced responses pertain to the establishment of communication (Association, Reassociation, Authentication), so the time bound selected does not impact the performance for MSDU delivery after communication is established.</b></p>	<p>value is “successful”, the assigned Station ID to the station is included in the response. If the station is not authenticated, the Access Point shall transmit a Deauthentication frame to the station.</p> <p>b) When the Association Response with a status value of “successful” frame is acknowledged by the station, the station is considered to be associated with this Access Point.</p> <p>c) The AP shall inform the Distribution System of the association.</p> <p><b>Clause 11.3.3:</b></p> <p>A station shall reassociate with an Access Point via the following procedure:</p> <p>a) The station shall transmit a Reassociation Request frame to an Access Point.</p> <p>b) If a Reassociation Response frame is received with status value of “successful”,</p>	
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						<p>the station is now associated with the Access Point.</p> <p>If the Reassociation Request fails for any reason, the station may scan for a different Access Point with which to attempt reassociation. <u>The station may treat a period of at least aMaxProbeResponseTime duration following the transmission of a Reassociation Request frame without receipt of any Reassociation Response frames as a failure of the Reassociation Request.</u></p> <p><b>Clause 11.3.4:</b></p> <p>An Access Point shall operate as follows in order to support the reassociation of stations.</p> <p>a) Whenever a Reassociation Request frame is received from a station and the station is authenticated, the Access Point shall transmit a Reassociation Response with a status value as defined in clause <u>7.3.1.97.3-1.8</u>. <u>The Access Point shall make its initial attempt to transmit the Reassociation Response frame soon enough after</u></p>	

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						<p><u>receipt of the Reassociation Request frame that a successful transmission attempt will be complete within aMaxProbeResponseTime of the receipt of the request.</u> -If the status value is "successful", the assigned Station ID to the station is included in the response. If the station is not authenticated, the Access Point shall transmit a Deauthentication frame to the station.</p> <p>b) When the Reassociation Response with a status value of "successful" frame is acknowledged by the station, the station is considered to be associated with this Access Point.</p> <p>c) The AP shall inform the Distribution System of the reassociation.</p> <p><b>Clause 11.1.3.2.1:</b></p> <p>Stations, subject to criteria below, receiving Probe <u>Request</u> frames shall respond with a Probe Response only if:</p> <p>(1) the SSID is the broadcast SSID or</p>	



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						<p>matches the specific SSID of the station, and (2) the Capability Information field of the Probe indicates a match on the current BSS type. Probe Responses shall be sent as directed frames to the address of the station that generated the Probe. The Probe Response shall be sent using normal frame transmission rules. <u>The responding station shall make its initial attempt to transmit the Probe Response frame within aMinProbeResponseTime of the receipt of the Probe Request frame.</u> An Access Point shall respond to all Probes meeting the criteria above. In an IBSS, the station that generated the last Beacon shall respond to a Probe.</p> <p>In each BSS there shall be at least one node that is awake at any given time to respond to Probes. The station that sent the most recent Beacon shall remain in the Awake state and shall be the only station to respond to Probes until a Beacon frame is received. If the station is an Access Point, it shall always remain in the Awake state and always respond to Probes.</p> <p><b>In each of Clauses 8.1.1.2, 8.1.2.2, 8.1.2.3, and 8.1.2.4 add the following two paragraphs after the current text:</b></p> <p><u>The station sending this frame shall make its initial transmission attempt</u></p>	

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						<p><u>soon enough after receipt of the preceding Authentication frame of this authentication sequence that a successful transmission attempt will be complete within aMaxProbeResponseTime of the receipt of the preceding frame.</u></p> <p><u>The station waiting to receive this frame may treat a period of at least aMaxProbeResponseTime duration following its transmission of the Authentication frame to which this is a response, without receipt of any Authentication frames as an unsuccessful authentication attempt.</u></p>	
15	11.1.3.2.2	JMZ	e		Editing	Fill in reference marked "xxx.x.x.x"	Accepted
16	11.1.3.2.2	KC	e		".. as defined xxx.x.x.x (currently 9.2.5.1)."	Replace with "as defined in 9.2.5.1."	Accepted
17	11.1.3.2.2	KC	t	Y	Figure 56, Probe Response, is not referenced anywhere in the text. The physical events needed to specify the timings implied by the figure are not defined.	Put in reference and define timings.	<b>ACCEPTED:</b> Figure 47 will be modified in Clause 9.2.9 to provide timing referenced to PHY indication. (OK with KC)
18	11.1.3.2.2	WD	T	y	<p>The intend of the use of Min_Probe_Response time is to scope out whether there is anything on the channel, after which the scanning can proceed to the next channel, if no activity has been detected on that channel during that time.</p> <p>The idea is that if there is an AP out there then this time should be sufficient for an AP to respond.</p>	<p>Change item e as follows:</p> <p>e) If no <u>medium busy activity</u> Probe response has been <u>detected</u><del>received</del> <u>within</u>by the first instance of a free medium at or after the <del>ProbeTimer</del> reaches</p>	<b>ACCEPTED:</b> with modified text. (OK with WD).

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					<p>If however medium activity has been detected during that time, then that could have been caused by the Probe_Response, or whatever other activity on the medium. In fact the maximum duration for a pending (non-Probe_response ) frame is considerably longer than the specified default Min_Probe_Response time, for which an AP trying to send the Probe_Response is possibly defering. In addition more AP's may be in the process of responding.</p> <p>So the plain intend is: "When there is (whatever) medium activity during the Min_Probe_Response time, then extend the listen time to Max_Probe_Response time.</p>	<p>aMinProbeResponseTime <u>after the transmission of the Probe Request frame</u>, then clear NAV and Scan next channel, else when ProbeTimer reaches aMaxProbeResponseTime, process all received Probe Responses;</p>	
19	11.1.4	PMK	e		Third Para: "...wich is not current as memebr....	"which is not currently a member"	OK
20	11.1.4	KC	t	Y	<p>"... greater than the station's TSF timer."</p> <p>What kind of "greater than" is to be used here? These are counters that roll over. Is this just unsigned greater than over the number of bits in the field, or is it signed greater than for something that is assumed to never be more than 1/2 way around the clock, or what?</p>	Specify exact comparison algorithm.	ACCEPTED: changed greater to later. (OK with KC).
21	11.1.5, 7.3.2.3, 13.1.4.4 4, 13.1.4.4 5, 14.8.2	SB	t	N	<p>Dwell time related MIB attributes are a complete mess in terms of units.</p> <p>13.1.4.4 defines aMaxDwellTime and aCurrentDwellTime in nanoseconds (!), the default values in 14.8.2 are in milliseconds and the comparison to a TSF timer value in 11.1.5 is to a time in microseconds. Lastly the value for the dwell time in the FH Parameter set element (7.3.2.3) is in Kmicroseconds.</p>	<p>Please can we have some order here. It would be nice if the aMaxDwellTime and aCurrentDwellTime were in Kus since this is what a number of other MAC attributes such as aBeaconPeriod is in. It also ties up with the FH parameter set. It also makes the TSF time comparison easy (hence the beacon stuff).</p> <p>So:</p> <p>aMAXDwellTime should be in Kus and be a default value of 390 (399.360ms)</p>	ACCEPTED: doesn't require any changes to clause 11.

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						aCurrentDwellTime should be in Kus an be a default value of 20.	
22	11.2.1	AS	e	y	In paragraph 4 the acronym PSM is used without any definition.	Change to Power Save mode.	Done
23	11.2.1	WD	E		AP can either respond directly after an SIFS, or Ack the PS-Poll, and send the corresponding MSDU later.	In a BSS operating under the DCF, or during the contention period of a BSS using the PCF, upon determining that a MSDU is currently buffered in the AP, a Station operating in the <i>Power Save mode (PS)</i> shall transmit a short PS-Poll frame to the AP, which shall respond with the corresponding buffered MSDU <u>immediately, or Ack the PS-Poll, and respond with the corresponding MSDU later.</u>	Accepted
24	11.2.1.1 last ¶	TLP	e		The acronym CCA has not been defined or used previously within this clause. It should at least be spelled out on this, its first occurrence. Even better would be definition before use.	Define before use or avoid use of the acronym entirely.	Accepted
25	11.2.1.2	TLP	e		This text does not provide constraints on the station ID code; they are provided elsewhere. By the time we get here, you are no longer legislating requirements on how a station ID code is formed or selected, but merely referring to its existence. Hence "is" rather than "shall".	Replace "shall be" with "is" in both the third and fourth sentences.	Accepted
26	11.2.1.2	TLP	e, t		Most references to the <i>virtual bitmap</i> should probably be to the <i>partial virtual bitmap</i> .	If this is the case, replace "virtual" with "partial virtual" twice in this paragraph, and elsewhere as appropriate.	Accepted
27	11.2.1.3	KC	t	Y	The physical event that is tied to Target Beacon Time is not specified. Is it the start of the preamble? The point at which the MAC checks for medium availability or what?	Specify exact algorithm.	WITHDRAWN: (OK with KC)
28	11.2.1.3 11.4.4 11.2.1.6	RM	T	Y	Clause 11.2.1.3 Figure 57 and Clause 11.2.1.6 illustrate that power managed stations need to wake up to receive all DTIM's if reception of multicast frames is required.	11.4.X.X.X <u>aMulticast Enable</u> <u>aMulticast Enable ATTRIBUTE WITH APPROPRIATE SYNTAX integer;</u>	ACCEPTED: with modified text.

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					<p>There is no mechanism within the standard to allow configuration of this option. A parameter needs to be added to the MIB to enable.</p>	<p><u>BEHAVIOUR DEFINED AS "This attribute shall indicate the ability of a power managed station to receive multicast broadcast frames. REGISTERED AS { iso(1) member-body(2) us(840) ieee802dot11(10036) MAC(2) attribute(7) Multicast Enable(7) };</u></p> <p><b>11.4.3.1.1 agStationConfiggrp</b>                      StationConfiggrp ATTRIBUTE GROUP                      GROUP ELEMENTS                      .....  <u>.aMulticast Enable</u></p> <p><b>11.2.1.3 (third Paragraph)</b>                      .....</p> <p>Figure 57 illustrates the AP and station activity under the assumption that a DTIM is transmitted once every three DTIMs. The top line in Figure 57 represents the time axis, with the Beacon Interval shown together with a DTIM Interval of three Beacon Intervals. The second line depicts AP activity. The AP schedules Beacons for transmission every Beacon Interval, but the Beacons may be delayed if there is traffic at the target beacon transmission times. This is indicated as "busy medium" on the second line. For the purposes of this figure, the important fact about Beacons is that they contain DTIMs, some of which may be DTIMs. Note that the second station with a Multicast Enable set to <u>False</u> will fail to receive broadcast/multicast frames, since it opts not to power up its receiver for all DTIMs.</p> <p><b>11.2.1.6</b>                      e) To receive broadcast/multicast MSDUs, the station must be configured with <u>aMulticast Enable = True</u>. The station shall wake up so as to receive every DTIM. A station receiving broadcast/multicast MSDUs</p>	<p><b>Name changed to aReceiveDTIMs.</b></p> <p><b>Also modified 11.2.1 to fix for addition for the new MIB attribute.</b></p> <p><b>(check with RM)</b></p>

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						shall remain awake until the More Data field of the broadcast/multicast MSDUs indicate there are no further buffered broadcast/multicast MSDUs or a TIM is received indicating there are no more buffered broadcast/multicast MSDUs buffered.	
29	11.2.1.3	TLP	e		The second figure reference, to Figure 59, is incorrect.	Change reference to Figure 57.	Accepted
30	11.2.1.4	KC	T	Y	"a) ... shall be temporarily buffered in the AP"  How much storage is the AP supposed to have to buffer these? When it runs out, what is it supposed to do? Is it supposed to distribute the storage resource with some idea of fairness to the STAs? Does this mean that dosing units that wander out of range cause the system to choke for those who need storage?	Specify storage allocation algorithm.	ACCEPTED:  Added text to indicate that the buffer management algorithm is beyond the scope of this standard.  (OK with KC)
31	11.2.1.4	TLP	e		In f), failure is only presumed, not known for certain.	Change "or failed" to "or presumed failed"	Accepted
32	11.2.1.5	AS	e	y	In sub-clause f) the acronym PSM is used without any definition.	Change to Power Save mode.	Adopted PS mode
33	11.2.1.5	KC	T	Y	"a) ... shall be temporarily buffered in the AP"  How much storage is the AP supposed to have to buffer these? When it runs out, what is it supposed to do? Is it supposed to distribute the storage resource with some idea of fairness to the STAs? Does this mean that dosing units that wander out of range cause the system to choke for those who need storage?	Specify storage allocation algorithm.	ACCEPTED:  Added text to indicate that the buffer management algorithm is beyond the scope of this standard.  (OK with KC)
34	11.2.1.6 11.4.4 11.2.1.3	RM	T	Y	Clause 11.2.1.3 Figure 57 and Clause 11.2.1.6 illustrate that power managed stations need to wake up to receive all DTIM's if reception of multicast frames is required. There is no mechanism within the standard to allow configuration of this option. A parameter needs to be added to the MIB to enable.	11.4.X.X.X <u>aMulticast_Enable</u> <u>aMulticast_Enable ATTRIBUTE WITH APPROPRIATE SYNTAX integer;</u> <u>BEHAVIOUR DEFINED AS "This attribute shall indicate the ability of a power managed station to receive multicast broadcast frames.</u> <u>REGISTERED AS { iso(1) member-body(2) us(840) ieee802dot11(10036) MAC(2)</u>	ACCEPTED: with modified text.  Name changed to aReceivDTIMs.  Also modified 11.2.1 to fix for

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						<p><u>attribute(7)Multicast Enable(7) };</u></p> <p><b>11.4.3.1.1 agStationConfiggrp</b> StationConfiggrp ATTRIBUTE GROUP GROUP ELEMENTS ..... <u>.aMulticast Enable</u></p> <p><b>11.2.1.3 (third Paragraph)</b> .....</p> <p>Figure 57 illustrates the AP and station activity under the assumption that a DTIM is transmitted once every three DTIMs. The top line in Figure 57 represents the time axis, with the Beacon Interval shown together with a DTIM Interval of three Beacon Intervals. The second line depicts AP activity. The AP schedules Beacons for transmission every Beacon Interval, but the Beacons may be delayed if there is traffic at the target beacon transmission times. This is indicated as "busy medium" on the second line. For the purposes of this figure, the important fact about Beacons is that they contain DTIMs, some of which may be DTIMs. Note that the second station with a MulticastEnable set to False will fail to receive broadcast/multicast frames, since it opts not to power up its receiver for all DTIMs.</p> <p><b>11.2.1.6</b> e) To receive broadcast/multicast MSDUs, the station must be configured with <u>aMulticastEnable = True</u>. The station shall wake up so as to receive every DTIM. A station receiving broadcast/multicast MSDUs shall remain awake until the More Data field of the broadcast/multicast MSDUs indicate there are no further buffered broadcast/multicast MSDUs or a TIM is received indicating there are no more</p>	<p><b>addition for the new MIB attribute.</b></p> <p><b>(check with RM)</b></p>
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						buffered broadcast/multicast MSDUs buffered.	
35	11.2.1.8	TLP	t		Simultaneous under-specification and over-specification, which results in over-constraining implementations while not requiring necessary functionality.	Change "transceivers" to "receivers".	Accepted
36	11.2.1.9	KC	T	Y	"... shall be based on the aListenInterval ..."  The default value of aListenInterval is 0 and this section says that the AP can age out messages older than this by some unspecified algorithm. What if an STA does not receive a beacon correctly, and thus does not respond on the first chance? Does that mean a 0 value allows the AP to dump the message?	Specify exact algorithm.	ACCEPTED:  Added text to indicate that the aging function is beyond the scope of this standard.  (OK with KC)
37	11.2.2.1	PMK	e		Last para: "...destination station is Power State Save mode..."	"destination station is in the Power State Save mode."	Done
38	11.2.2.1	KC	t	Y	The physical event that is tied to Target Beacon Time is not specified. Is it the start of the preamble? The point at which the MAC checks for medium availability or what?	Specify exact algorithm.	WITHDRAWN: (OK with KC)
39	11.2.2.1 1st ¶	TLP	e		Last use of "shall" is incorrect, since the verb is being used to describe necessity and intent, not a requirement.	Change "shall remain" to "needs to remain"	Accepted
40	11.2.2.1 2nd ¶	TLP	e		This augmentation seems to be necessary because this standard, for some obscure reason, treats broadcast (multicast to all) frames as if they were not multicast frames. It is as if one were to say that a rule applied to multi-person groups, and also to the group of all persons, implying that the latter was somehow not an instance of the former. In any event, be consistent. Since the committee seems to feel that broadcast is somehow not multicast, thus requiring explicit inclusion at each reference, please do the same here.	Change "multicast" to "broadcast/multicast"	Removed the qualification.
41	11.2.2.1 3rd ¶	TLP	e, t		The existing text states that MSDUs are randomized, when the randomization actually applies to the instant of transmission of the MSDUs; the MSDUs have prescribed contents which is anything but random. Also, the specified procedure lacks a reference.	Change the last sentence to read "Transmissions of MSDUs announced by ATIMs are randomized after the ATIM Window, using the backoff procedure described in clause 9."	ACCEPTED: editorial only.



Seq. #	Section number	your voter's id code	Comment type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
42	11.2.2.1	WD	t		This section describes that in the ATIM window also Multicast frames shall be transmitted. This is not correct. The ATIM frame can have a multicast address, to announce multicast frames, but the frame itself should be send outside the ATIM window. This then is also consistent with item d of section 11.2.2.4.	The ATIM Window is defined as a specific period of time, defined by aATIMWindow, following a TBTT during which only Beacon, <del>or</del> ATIM <del>or multicast</del> frames shall be transmitted.	What is the desired operation? Ask the group.
43	11.2.2.1	WD	T	Y	<p>This section specifies that the ATIM transmission times are to be randomized using the backoff procedure, but with the contention window set to aCWmax. This is considered a far to wide range, especially considering that the randomization of the Beacon frame (which is not acknowledged) is specified to be in a range till twice aCWmin as specified in section 11.1.2.2. In an IBSS each station will try to send a Beacon untill another one is recognised. The collision probability between those Beacons is then directly proportional to the number of stations participating in the IBSS.</p> <p>The probability that ATIM frames are being transmitted, and so the collision probability of such frames is worst case identical to the collision probability of the Beacons, but is usually much less, because it depends of the traffic load generated simulataneously by all stations.</p> <p>Further all directed ATIMs are acknowledged, so a collision would result in a retransmission of the ATIM.</p> <p>The randomization range for ATIM transmissions should be specified equal to the normal aCWmin. This then is also consistent with item b of section 11.2.2.4.</p> <p>This should be sufficient considering that a collision will result in a retransmission of the ATIM.</p>	ATIM transmission times are randomized, after a Beacon frame is either transmitted or received by the station, using the backoff procedure with the contention window equal to aCW <del>minmax</del> .	ACCEPTED: as is (OK with WD)
44	11.2.2.1 &	WD	t		The specification of the ATIM window is inconsistent between the subject sections.	Update Annex. D accordingly.	ACCEPTED: Annex D will be deleted.

Seq. #	Section number	your voter's id code	Comment type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
	11.4.4.1 .27 & Annex D.				Section 11.4.4.1 specifies 4 Kusec Annex D specifies 1000, while the units are not specified. Suggest to specify 4 Kusec, which will suit the DS and FH Phy.		(OK with WD)
45	11.2.2.2	TLP	e		Use of unique nomenclature, and visual non-separation of equation from text	Put the equation of c) on a separate line and clarify the use of square brackets and the meaning of the equal sign, both of which are not found in other equations.	Accepted
46	11.2.2.3	WD	e		Text assumes that there are multiple Active mode codes defined, whereas we currently have only one. So delete the last sentence of the first paragraph.	<del>A station in active mode may use either of the Active Mode codes defined.</del>	Accepted
47	11.2.2.4	KC	T	Y	"A station may discard frames ... make it desirable to discard buffered frames, e.g., buffer starvation."  How much storage is the STA supposed to have to buffer these? When it runs out, what is it supposed to do? Is it supposed to distribute the storage resource with some idea of fairness to the other STAs? Does this mean that dosing units that wander out of range cause the system to choke for those who need storage?	Specify exact algorithm.	ACCEPTED:  Added text to indicate that the buffering algorithm is beyond the scope of this standard.  (OK with KC)

Seq. #	Section number	your voter's id code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
48	11.2.2.4	TLP	t, e		<p>The last part of k) is inconsistent with the preceding part.</p> <p>If STAs are “known to be in the Awake state”, then it cannot be because they were functioning in PowerSave mode and were presumed to have received an ATIM. If they are merely “presumed” to be in the Awake state, based on third-party observation of MPDUs which they might also have received, then make it very clear that presumption, not knowledge, is involved. The difference in anticipated error rates between these two modes of information assessment is substantial.</p>	<p>One solution might be to change k) to read “Following the transmission of all buffered MSDUs, a STA may transmit MSDUs without announcement to STAs that are known to be in the Awake state for the current beacon interval.”</p> <p>Alternatively, “known” could be replaced with “presumed”, in which case most of the existing text at the end of k) could be retained after rewording into literate English.</p>	<p><b>REJECTED:</b>  <b>Mode versus state misunderstanding. A station may be in the Awake state and still be in the Power Save mode.</b></p> <p>(check with TLP).</p>
49	11.2.2.4	WD	E		<p><b>Item b and d are in conflict with section 11.2.2.1. However the statements are correct, and section 11.2.2.1 needs to be updated.</b></p>	<p>Update section 11.2.2.1 according to my comments on that section.</p>	<p><b>See in that section</b></p>
50	11.3	SB	E	t	<p>There is no ‘standard’ timeout for association request and re-association request. A sensible implementation would have a timer run here - It seems to me that one implementation may assume that an STA will wait 1 second (say) for a response, but another conformant implementation may only wait 0.5 seconds (say). This would cause a problem. So a time needs defining - I’ve used aAssociationTime which is a new MIB attribute.</p>	<p>Make the following changes and define aAssociationTime or capture the intent (I’m not particularly concerned about the exact wording/mechanism to solve this issue)</p> <p>This defines how a station associates and reassociates with an Access Point.</p> <p><b>Station Association Procedures</b></p> <p>A station shall associate with an Access Point via the following procedure:</p> <p>a) The station shall transmit an Association Request to an Access Point with which that station is authenticated.</p>	<p>ACCEPTED:  The changes made in response to comment 14.</p> <p>(OK with SB).</p>

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						<p>b) If an Association Response frame is received <u>within aAssociationTime</u> with status value of "successful", the station is now associated with the Access Point.</p> <p>If the Association Request fails for any reason, the station may scan for a different Access Point with which to attempt association.</p> <p><b>Access Point Association Procedures</b></p> <p>An Access Point shall operate as follows in order to support the association of stations.</p> <p>a) Whenever an Association Request frame is received from a station and the station is authenticated, the Access Point shall transmit an Association Response <u>within aAssociationTime</u> with a status value as defined in clause 7.3.1.8. If the status value is "successful", the assigned Station ID to the station is included in the response. If the</p>	
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						<p>station is not authenticated, the Access Point shall transmit a Deauthentication frame to the station <u>within aAssociationTime</u>.</p> <p>b) When the Association Response with a status value of "successful" frame is acknowledged by the station, the station is considered to be associated with this Access Point.</p> <p>c) The AP shall inform the Distribution System of the association.</p> <p><b>Station Reassociation Procedures</b></p> <p>A station shall reassociate with an Access Point via the following procedure:</p> <p>a) The station shall transmit a Reassociation Request frame to an Access Point.</p> <p>b) If a Reassociation Response frame is received <u>within aAssociationTime</u> with status value of "successful", the station is now associated with the Access Point.</p>	
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						<p>If the Reassociation Request fails for any reason, the station may scan for a different Access Point with which to attempt reassociation.</p> <p><b>Access Point Reassociation Procedures</b></p> <p>An Access Point shall operate as follows in order to support the reassociation of stations.</p> <ul style="list-style-type: none"> <li>a) Whenever a Reassociation Request frame is received from a station and the station is authenticated, the Access Point shall transmit a Reassociation Response <u>within aAssociationTime</u> with a status value as defined in clause 7.3.1.8. If the status value is "successful", the assigned Station ID to the station is included in the response. If the station is not authenticated, the Access Point shall transmit a Deauthentication frame to the station <u>within aAssociationTime</u>.</li> <li>b) When the Reassociation</li> </ul>	

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						<p>Response with a status value of "successful" frame is acknowledged by the station, the station is considered to be associated with this Access Point.</p> <p>c) The AP shall inform the Distribution System of the reassociation.</p>	
51	11.3.1, 11.3.2, 11.3.3, 11.3.4, and 11.1.3.2.1, also 8.1.1.2, 8.1.2.2, 8.1.2.3, 8.1.2.4	MAF	t	(na)	<p>There is nothing specified, either procedurally or in the MAC MIB to define an upper bound on the response time for Management frames other than Probes. There is a risk that conformant implementations might not be interoperable in the absence of of such a bound on the time before the responding station attempts to send Association Response frames, Reassociation Response frames, and Authentication frames (for the 2nd through last frames of any defined authentication sequence).</p> <p>The problem could occur in a case where an AP (or other responder STA in the case of Authentication sequences) is implemented in such a manner that it will never respond to one or more of these request types within the time that some STA implementation considers a reasonable maximum waiting time for such a response. For power-managed stations, waiting "forever" is a poor alternative. I strongly recommend that we apply the time limits already in the MIB for aMinProbeResponseTime and aMaxProbeResponseTime to the request/response exchanges for Association, Reassociation, and Authentication (for each step in the authentication sequence), as well as for Probe (already specified in 11.1.3.2.2). There also needs to be a constraint that</p>	<p><b>Clause 11.3.1:</b></p> <p>A station shall associate with an Access Point via the following procedure:</p> <p>a) The station shall transmit an Association Request to an Access Point with which that station is authenticated.</p> <p>b) If an Association Response frame is received with status value of "successful", the station is now associated with the Access Point.</p> <p>If the Association Request fails for any reason, the station may scan for a different Access Point with which to attempt association. <u>The station may treat a period of at least aMaxProbeResponseTime duration following the transmission of an</u></p>	<p><b>Partially ACCEPTED:</b> The changes related to the station were accepted and the text adopted.</p> <p><b>Responder requirements cannot be met.</b></p> <p>(check with MAF).</p>

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					<p>the AP (or responder in the case of Probes and Authentication sequences in an IBSS) shall make its first attempt to transmit the response within aMinProbeResponse of receipt of a valid request. The requirement for conformance &amp; interoperability is to have an upper bound on the response time between successful receipt of the request and the first attempt to obtain control of the medium to transmit the response. With this time interval known, there is a basis for interoperability that allows local decisions at the stations as to how much longer (if any) to wait due to medium access delays, and whether to retry, look elsewhere, etc.</p> <p>A similar comment on D4.0 was declined (with commenter's agreement) at the July, 1996 meeting because the solution proposed therein was found to be incomplete; not because there was a finding that the cited problem did not exist. While the risk of non-interoperability among "sane" STA and AP implementations is small, sooner or later this type of incompatibility will occur if a time bound is not defined in the standard.</p> <p>There are two approaches to fixing this problem. One is to add new MIB attributes with minimum response time limits for each various management frame exchanges. The other is to re-use an existing response time MIB attribute, such as aMaxProbeResponseTime. The proposed text changes to the right use the later approach, since to this commenter there does not seem to be any compelling reason to need different response time bounds for different of the exchanges. Note that all of the referenced responses pertain to the establishment of communication (Association, Reassociation, Authentication), so the time bound</p>	<p><u>Association Request frame without receipt of any Association Response frames as a failure of the Association Request.</u></p> <p><b>Clause 11.3.2:</b></p> <p>An Access Point shall operate as follows in order to support the association of stations.</p> <p>a) Whenever an Association Request frame is received from a station and the station is authenticated, the Access Point shall transmit an Association Response with a status value as defined in clause <u>7.3.1.97-3-1-8</u>. <u>The Access Point shall make its initial attempt to transmit the Association Response frame soon enough after receipt of the Association Request frame that a successful transmission attempt will be complete within aMaxProbeResponseTime of the receipt of the request.</u> If the status value is "successful", the assigned Station ID to the station is included in</p>	
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					<p>selected does not impact the performance for MSDU delivery after communication is established.</p>	<p>the response. If the station is not authenticated, the Access Point shall transmit a Deauthentication frame to the station.</p> <p>b) When the Association Response with a status value of "successful" frame is acknowledged by the station, the station is considered to be associated with this Access Point.</p> <p>c) The AP shall inform the Distribution System of the association.</p> <p><b>Clause 11.3.3:</b></p> <p>A station shall reassociate with an Access Point via the following procedure:</p> <p>a) The station shall transmit a Reassociation Request frame to an Access Point.</p> <p>b) If a Reassociation Response frame is received with status value of "successful", the station is now associated with the Access Point.</p>	
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						<p>If the Reassociation Request fails for any reason, the station may scan for a different Access Point with which to attempt reassociation. <u>The station may treat a period of at least aMaxProbeResponseTime duration following the transmission of a Reassociation Request frame without receipt of any Reassociation Response frames as a failure of the Reassociation Request.</u></p> <p><b>Clause 11.3.4:</b></p> <p>An Access Point shall operate as follows in order to support the reassociation of stations.</p> <ul style="list-style-type: none"> <li>a) Whenever a Reassociation Request frame is received from a station and the station is authenticated, the Access Point shall transmit a Reassociation Response with a status value as defined in clause <u>7.3.1.97.3-1.8</u>. <u>The Access Point shall make its initial attempt to transmit the Reassociation Response frame soon enough after receipt of the Reassociation Request frame that a successful</u></li> </ul>	
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						<p><u>transmission attempt will be complete within aMaxProbeResponseTime of the receipt of the request.</u> -If the status value is "successful", the assigned Station ID to the station is included in the response. If the station is not authenticated, the Access Point shall transmit a Deauthentication frame to the station.</p> <p>b) When the Reassociation Response with a status value of "successful" frame is acknowledged by the station, the station is considered to be associated with this Access Point.</p> <p>c) The AP shall inform the Distribution System of the reassociation.</p> <p><b>Clause 11.1.3.2.1:</b></p> <p>Stations, subject to criteria below, receiving Probe <u>Request</u> frames shall respond with a Probe Response only if:</p> <p>(1) the SSID is the broadcast SSID or matches the specific SSID of the station, and (2) the Capability Information field of the Probe</p>	

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						<p>indicates a match on the current BSS type. Probe Responses shall be sent as directed frames to the address of the station that generated the Probe. The Probe Response shall be sent using normal frame transmission rules. <u>The responding station shall make its initial attempt to transmit the Probe Response frame within aMinProbeResponseTime of the receipt of the Probe Request frame.</u> An Access Point shall respond to all Probes meeting the criteria above. In an IBSS, the station that generated the last Beacon shall respond to a Probe.</p> <p>In each BSS there shall be at least one node that is awake at any given time to respond to Probes. The station that sent the most recent Beacon shall remain in the Awake state and shall be the only station to respond to Probes until a Beacon frame is received. If the station is an Access Point, it shall always remain in the Awake state and always respond to Probes.</p> <p><b>In each of Clauses 8.1.1.2, 8.1.2.2, 8.1.2.3, and 8.1.2.4 add the following two paragraphs after the current text:</b></p> <p><u>The station sending this frame shall make its initial transmission attempt soon enough after receipt of the preceding Authentication frame of this authentication sequence that a</u></p>	

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						<p><u>successful transmission attempt will be complete within aMaxProbeResponseTime of the receipt of the preceding frame.</u></p> <p><u>The station waiting to receive this frame may treat a period of at least aMaxProbeResponseTime duration following its transmission of the Authentication frame to which this is a response, without receipt of any Authentication frames as an unsuccessful authentication attempt.</u></p>	
52	11.3.2	JMZ	e		Reference to 7.3.1.8 is wrong	Should be 7.3.1.9	was correct in 5.1a
53	11.3.2 11.3.4	TLP	e		"is" was used where "shall be" is needed. Also, parts of speech confusion with the word "assigned"	The second sentence of a) in each sub-sub-clause should read " If the status value is "successful", the Station ID assigned to the station shall be included in the response."	<b>Accepted</b>
54	11.3.3	TLP	T	Yes	Nothing so far described in this standard explains why a STA would need to reassociate with an AP, nor what event would cause a previously-associated STA to no longer be associated but still need to be associated.	Pleas provide some discussion of this issue, either here or in subclause 5.5 near Figure 8.	<b>ACCEPTED:</b> <b>Added text in 11.3.1 and 11.3.3 to indicate that the associate and reassociate procedures are initiated on MLME requests.</b>  <b>(check with TLP).</b>
55	11.4 A.4.4.1 PC15.1 PC15.2 PC15.3	GMG	T	Y	<b>Currently the entire MIB is specified to be mandatory for Standard Compliance. Since the MIB is not required for interoperability 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</b>	Make the Status of all items in PC15 Optional.	<b>Partially ACCEPTED;</b> <b>Deleted some entries and made some optional.</b>  <b>(check with GMG)</b>

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	Annex D				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.		
56	11.4 A.4.4.1 PC15.1 PC15.2 PC15.3  Annex D	WD	T	Y	Currently the whole MIB is specified to be mandatory for Standard Compliance. This is considered far to restrictive. Since the MIB is not required for interoperability between stations, its support should be optional. 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 this is to be its definition.	Make the Status of all items in PC15 Optional.	<b>Partially ACCEPTED;</b> Deleted some entries and made some optional.  (OK with WD)
57	11.4  PC15.1 PC15.2 PC15.3 Annex. D	WD	T	y	According to the current PICS we should support a full MIB, even when we do not implement the options like WEP and PCF. This is clearly not acceptable. The MIB and PICS proforma should be restructured such that it allows for exclusion of the MIB items that are associated with optional functionality in the standard.  The prime purpose of the MIB definitions is to provide a common understanding of objects for Network Management and diagnostic purposes. However the vast majority of the MIB definitions are not relevant for Network Management purposes. Part of the currently defined MIB (especially the PHY MIBs) are primarily there to provide relevant	The MIB and PICS should be restructured to allow exclusion of items associated with optional functionality that is not implemented.  This relates in particular to the WEP and PCF functionality.  The MIB and PICS should be restructured to define subsets that are relevant for Network Management and Diagnostic purposes.  In particular this relates to the	<b>Partially ACCEPTED;</b> Deleted some entries and made some optional. Need to do consistency check with PICS>  (OK with WD)

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					<p>PHY dependent parameters for the MAC. These in particular are not relevant for Network Management purposes.</p> <p>Furthermore the control of most controllable MIB parameters will be very implementation specific, and do fully depend on the actual configuration and configuration mechanism provided by the vendor of the end product.</p> <p>It would be desirable to specify a MIB subset that is relevant for Network Management purposes, especially those that provide statistic information.</p>	<p>following subset.</p> <p>Section 11.4.3.2.2 agCountergrp</p> <p>aMaxRate, aManufacturerID, aProductID, aPrivacyOptionImplemented.</p>	
58	11.4	MAF	E	{na}	<p>Management objects are now defined twice: in clause 11.4 and in Annex D, with the ASN.1 version in Annex D stated as the normative version. There are many inconsistencies between the management information definitions in clause 11.4 and those in Annex D.</p>	<p>Delete clause 11.4.2 through clause 11.4.6.1.2 (or update them to remove the inconsistencies, but this is not recommended). Clause 11.4.1 can remain as a MIB summary, or can be deleted.</p>	<p>The text in clause 11 is to be required for a complete understanding of the MAC MIB. In the case of inconsistencies, there is a statement that the Annex takes precedence</p>
59	11.4 and Annex D	MAF	T		<p>The object groups in 11.4 (oSMT in 11.4.2.1.1, oMAC in 11.4.2.2.1) are defined according to ISO/IEC 10165-2, whereas the Annex D uses SNMP v2. These should be consistent (unless 11.4.2.x is removed due to another comment).</p>	<p>Use SNMPv2 in 11.4.2.x</p>	<p><b>ACCEPTED:</b></p> <p>(check with MAF).</p>
60	11.4 and Annex D	MAF	t		<p>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 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 as managed objects whether or not those state machines are incorporated into the standard. These unnecessary/undesirable objects include:</p> <p>aMaxMPDUTime</p>	<p>Remove these from the MIB. Replace with functional or procedural definitions in the relevant clauses and/or Annex C.</p>	<p><b>ACCEPTED:</b></p> <p>(check with MAF).</p>

Seq. #	Section number	your voter's id code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
					aCTSSize aACKSize aACKTimeout		
61	11.4 and Annex D	MAF	E	{na}	aCurrenAPMACAddress and aCurrentBSSID are really the same thing, "current AP MAC address" is an artifact from an earlier version of the MAC	Remove aCurrentAPMACADDRESS, replace any references to this with references to aCurrentBSSID	Accepted
62	11.4 and Annex D	MAF	t		aKnownAPs table and aGroupAddresses table may be worth having as readable objects, but should not have read-write access. These are not things which 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.	make both of these tables read-only remove actAddGroupAddress and actDeleteGroupAddress	ACCEPTED: With modified text. Both are deleted.  (check with MAF).
63	11.4 and Annex D	MAF	t		actInitializeSMT and actInitializeMAC are rather dangerous — normally an external network management entity cannot reinitialize the MAC or SMT during operation of the station. If these are 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).	Recommend deleting these actions, otherwise restrict their applicability and effect to times when not associated.	ACCEPTED:  (check with MAF).
64	11.4, Annex D	SB	t	N	<p>There are some inconsistencies between the MIB definitions in the body of the standard and the ASN.1 definition, particularly in the case of default values. The standard says that the ASN.1 definition takes precedence, but in most cases it seems that this is where the error is. My guess would be that the ASN.1 MIB is lagging the standard by at least one draft.</p> <p>Here are the items that I have spotted - there may be more:</p> <p>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</p>	<p>If the ASN.1 is to take precedence over the standard then make it correct.</p> <p>Correct all inconsistencies located and review thoroughly for others.</p>	ACCEPTED:  (check with SB).



Seq. #	Section number	your voter's id code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
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					<p>headers and possibly WEP.</p> <p>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.</p> <p>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 definition, aCFPRate 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.</p> <p>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</p> <p>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</p> <p>aFragmentationThreshold has a correct default value in 11.4 of 2346 and an incorrect default value in the ASN.1 of 2304.</p> <p>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 definition is correct and consistent with clause 9.2.5.3.</p> <p>aLongRetryLimit has a default value of 4 in 11.4 and is related to frames longer than aRTSThreshold. In the ASN.1 definition it takes a default value of 7 and applies to frames longer than aFragmentationThreshold in</p>		
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Seq. #	Section number	your voter's id code	Comment type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
					length. The 11.4 definition is correct and consistent with 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 and PHYDATA.confirm in the ASN.1. There is not a lot of difference here - but things need straightening out.		
65	11.4.1.1.1	WD	e		Sequence of group different than in Annex D.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	partially accepted. The MIB has been significantly reduced in size and many of the attributes have been moved to the parameters of the MLME primitives. In addition, a large number of attributes have been placed in optional packages. The remaining attributes are felt to be required for proper operation and management of the 802.11 MAC
66	11.4.1.1.2	WD	e		aCurrentSSID is named aCurrentESSID in Annex D Missing aDesiredSSID. Missing aCurrentAPMACAddress	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>Accepted</b>
67	11.4.1.2.2	WD	e		Sequence of group different than in Annex D. aTransmittedMPDUCount is named aTransmittedFrameCount in Annex D. aMulticastReceivedCount is named aMulticastReceivedFrameCount in Annex.D. aBroadcastReceivedCount is named aBroadcastReceivedFrameCount in Annex.D.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
68	11.4.1.4.1	WD	e		acInitializeSMT is named actInitializeSMT in Annex D.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
69	11.4.1.4	WD	e		acMACInit is named actInitializeMAC in Annex D.	<b>Suggest to remove the definitions in</b>	<b>See resolution in comment 65</b>

Seq. #	Section number	your voter's id code	Comment type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
	.2				acAddGroupAddress is named actAddGroupAddress in Annex D. acDeleteGroupAddress is named actDeleteGroupAddress in Annex D.	the std body (11.4), and to correct Annex D as applicable.	
70	11.4.2.1.1	WD	E		oSMT is defined according to ISO/IEC 10165-2, while Annex D is defined according to SNMPv2. What is the significance of the ISO definitions here? aCurrentSSID is named aCurrentESSID in Annex D. aBSSBasicRateSet is not defined in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
71	11.4.2.2.1	SB	E	N	aCTSTimeout is missing from the MAC Object Class list - but it is used in 9.2.5.7 and defined in 11.4.4.2.29  It is also missing from the ASN.1 MIB definition.	Add to MAC Object Class list and to ASN.1 MIB definition.	See resolution in comment 65
72	11.4.2.2.1	WD	E		oMAC is defined according to ISO/IEC 10165-2, while Annex D is defined according to SNMPv2. What is the significance of the ISO definitions here? aTransmittedMPDUCount is named aTransmittedFrameCount in Annex D. aBroadcastFrameCount is named aBroadcastTransmittedFrameCount in Annex D. aMultipleRetryCount should be aMultipleRetryCount. aMACEnableStatus is not defined in Annex D. aHandshakeOverhead is not defined in Annex D.  aCWmax is not defined in Annex D. aCWmin is not defined in Annex D. agCapabilitiesgrp is not defined in Annex D. agConfiggrp is not defined in Annex D. agAddressgrp is not defined in Annex D. agFrameErrorConditiongrp is not defined in Annex D. acInitializeMAC is named actInitializeMAC in Annex D. acAddGroupAddress is named actAddGroupAddress in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65

Seq. #	Section number	your voter's id code	Comment type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
					acDeleteGroupAddress is named actDeleteGroupAddress in Annex D. 11.4.3.1.1 Sequence of group different than in Annex D. aBSSBasicRateSet is not defined in Annex D.		
73	11.4.3.1.2	WD	E		aCurrentSSID is named aCurrentESSID in Annex D. Missing aDesiredSSID. Missing aCurrentAPMACAddress.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
74	11.4.3.1.3	WD	E		aSelectedPrivacyAlgorithm is not defined in Annex D.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
75	11.4.3.2.2	WD	e		Sequence of group different than in Annex D. aTransmittedMPDUCount is named aTransmittedFrameCount in Annex D. aMulticastReceivedCount is named aMulticastReceivedFrameCount in Annex.D. aBroadcastReceivedCount is named aBroadcastReceivedFrameCount in Annex.D.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
76	11.4.4 11.2.1.3 11.2.1.6	RM	T	Y	<b>Clause 11.2.1.3 Figure 57 and Clause 11.2.1.6 illustrate that power managed stations need to wake up to receive all DTIM's if reception of multicast frames is required. There is no mechanism within the standard to allow configuration of this option. A parameter needs to be added to the MIB to enable.</b>	<b>11.4.X.X.X aMulticast Enable</b> <u>aMulticast Enable ATTRIBUTE WITH APPROPRIATE SYNTAX integer;</u> <u>BEHAVIOUR DEFINED AS "This attribute shall indicate the ability of a power managed station to receive multicast broadcast frames. REGISTERED AS {iso(1) member-body(2) us(840) ieee802dot11(10036) MAC(2) attribute(7)Multicast Enable(7) };</u>  <b>11.4.3.1.1 agStationConfiggrp</b> StationConfiggrp ATTRIBUTE GROUP GROUP ELEMENTS ..... <u>.aMulticast Enable</u>  <b>11.2.1.3 (third Paragraph)</b> .....  Figure 57 illustrates the AP and station activity under the assumption that a DTIM is	<b>ACCEPTED:</b> <b>with modified text.</b>  <b>Name changed to aRecieveDTIMs.</b>  <b>Also modified 11.2.1 to fix for addition for the new MIB attribute.</b>  <b>(check with RM)</b>

Seq. #	Section number	your voter's id code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
						<p>transmitted once every three DTIMs. The top line in Figure 57 represents the time axis, with the Beacon Interval shown together with a DTIM Interval of three Beacon Intervals. The second line depicts AP activity. The AP schedules Beacons for transmission every Beacon Interval, but the Beacons may be delayed if there is traffic at the target beacon transmission times. This is indicated as "busy medium" on the second line. For the purposes of this figure, the important fact about Beacons is that they contain DTIMs, some of which may be DTIMs. Note that the second station with a MulticastEnable set to <del>False</del> will fail to receive broadcast/multicast frames, since it opts not to power up its receiver for all DTIMs.</p> <p><b>11.2.1.6</b>                      e) To receive broadcast/multicast MSDUs, the station must be configured with <del>a MulticastEnable = True</del>. The station shall wake up so as to receive every DTIM. A station receiving broadcast/multicast MSDUs shall remain awake until the More Data field of the broadcast/multicast MSDUs indicate there are no further buffered broadcast/multicast MSDUs or a TIM is received indicating there are no more buffered broadcast/multicast MSDUs buffered.</p>	
77	11.4.4	WD	e		All attribute name definitions miss the leading 'a'.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
78	11.4.4.1 .25	TLP	e		Pay some attention to visual formatting and term/factor delimitation here.	Format the equation with indentation to aid readability. (See provided revision-marked files for one such formatting.)	<b>See resolution in comment 65</b>
79	11.4.4.1 .1	WD	E		Missing "behaviour".	<b>Suggest to remove the definitions in the std body (11.4), and to correct</b>	<b>See resolution in comment 65</b>

Seq. #	Section number	your voter's id code	Comment type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
						<b>Annex D as applicable.</b>	
80	11.4.4.1.14	WD	E		"Behaviour" not same as "Description" in Annex D.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
81	11.4.4.1.15	WD	E		"Behaviour" not same as "Description" in Annex D.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
82	11.4.4.1.24	WD	E		"Behaviour" not same as "Description" in Annex D.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
83	11.4.4.1.25	WD	E		"Behaviour" not same as "Description" in Annex D.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
84	11.4.4.1.27 11.2.2.1 & Annex D.	WD	t		<b>The specification of the ATIM window is inconsistent between the subject sections. Section 11.4.4.1 specifies 4 Kusec Annex D specifies 1000, while the units are not specified. Suggest to specify 4 Kusec, which will suit the DS and FH Phy.</b>	<b>Update Annex. D accordingly.</b>	<b>ACCEPTED: Deleted Annex D.  (check with WD)</b>
85	11.4.4.1.27	WD	E		"Behaviour" not same as "Description" in Annex D.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
86	11.4.4.1.32	WD	e		aBSSBasicRateSet is not defined in Annex D.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
87	11.4.4.1.4	WD	E		Missing "behaviour".	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
88	11.4.4.1.15	TLP	T	Yes	Since the description in 8.3.2 is deficient and incorrect, it is necessary that the actual array-of-records structure be defined unambiguously. This would be a good place to do it.	Define the actual array-of-records structure unambiguously.	<b>ACCEPTED:  (check with TLP)</b>
89	11.4.4.1.6	WD	e		aCurrentSSID is named aCurrentESSID in Annex D.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>

Seq. #	Section number	your voter's id code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
90	11.4.4.1.7	WD	E		"Behaviour" not same as "Description" in Annex D.	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
91	11.4.4.2.11.12	TLP	e		change to literate English	Change "received to a RTS" to "received in response to an RTS"	<b>Accepted</b>
92	11.4.4.2.13	TLP	e		change to literate English	Change "received to a" to "received in response to a"	<b>Accepted</b>
93	11.4.4.2.16	TLP	e		The deleted text is unnecessary as it is already excluded by the corrected text of aGroupAddresses. Its presence implies inconsistent requirements on the set aGroupAddresses.	Delete the clause ", the destination MAC address is not the broadcast address"	<b>Accepted</b>
94	11.4.4.2.21.33 many others	TLP	E	Yes	Please take pity on non-native English speakers and use names that they have some slight chance of understanding. "suprt" for "supported" is not even close to acceptable. I am NO-voting the PHY clause of this standard for this reason (gross inconsiderateness). Therefore I am also correcting the names of PHY attributes which occur in this clause to a form that is acceptable to me (and I'm sure other intended readers); I will not be annotating the reason for each such correction.	Change "aSuprtDataRates" to "aSupportedDataRates", and "aMPDUMaxLngh" to "aMPDUMaxLength".  (See supplied revision-marked files for addition corrected attribute names.)	<b>Accepted</b>
95	11.4.4.2.22	TLP	e		The relevant subset of frame types was specified incorrectly or not at all.	Change the third and fourth sentences to read " Setting this attribute to be larger than the maximum MSDU size shall have the effect of turning off the RTS/CTS handshake for all Data frames transmitted by this station. Setting this attribute to zero shall have the effect of turning on the RTS/CTS handshake for all Data frames transmitted by this station."	<b>accepted</b>

Seq. #	Section number	your voter's id code	Comment type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
96	11.4.4.2.22	TLP	t		Unless I misremember, RTS/CTS was used for more than just Data frames. The other uses should not be affected by this attribute. If they are, then be very clear about it, both here and in those places where RTS/CTS is used for non Data-frame purposes.	Consider this issue and clarify the text based on committee intent.	<b>ACCEPTED:</b> <b>RTS/CTS is only used for frames of Data of Management type.</b>  <b>(check with TLP).</b>
97	11.4.4.2.23 .24 .25	TLP	e		References to "number of slots" and "slots" is meaningless. Is this a casino?	Change all such occurrences to "units of aSlotTime".	<b>accepted</b>
98	11.4.4.2.25	TLP	e		If the default values for aCWmin are defined in the relevant PHY clause, then the CANNOT be defined here, and so any specification here is for information only. You can't have ti BOTH ways.	Change "shall be" to "are".	<b>Accepted by removal at all</b>
99	11.4.4.2.28 .29	TLP	e		There is always a potential for an STA to respond to multiple addresses and hence send frames for network-maintenance reasons to which the same STA responds. In such a case the reference to PHYTXEND.confirm is needlessly ambiguous.	Change each sub-sub-sub-section to read "timed from receipt of the first frame's PHYTXEND.confirm"	<b>accepted</b>
100	11.4.4.2.33	TLP	e		If the default values for aFragmentationThreshold are defined in the relevant PHY clause, then the CANNOT be defined here, and so any specification here is for information only. You can't have ti BOTH ways.	Change "shall be" to "are".	<b>Accepted</b>
101	11.4.4.2.37 .38	TLP	e		Incorrect English	In each sub-sub-sub-section, change "that further" to "after which further"	<b>accepted</b>
102	11.4.4.2.1	WD	E		Missing "behaviour".	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
103	11.4.4.2.14	WD	E		Missing "behaviour".	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
104	11.4.4.2.15	WD	E		Missing "behaviour".	<b>Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.</b>	<b>See resolution in comment 65</b>
105	11.4.4.2	WD	E		"Behaviour" not same as "Description" in Annex D.	<b>Suggest to remove the definitions in</b>	<b>See resolution in comment 65</b>



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	.18					the std body (11.4), and to correct Annex D as applicable.	
106	11.4.4.2.2	TLP	t		Exclude the broadcast address from this set, since its default value is the null set.	Change to read "... multicast addresses, excluding the broadcast address, for which ..."	<b>ACCEPTED:</b> clarifying text added.  (check with TLP)
107	11.4.4.2.21	WD	E		"Behaviour" not same as "Description" in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
108	11.4.4.2.22	WD	e		Default value differs from the one defined in Annex D (3000 vs 2305).	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
109	11.4.4.2.26	WD	E		"Behaviour" not same as "Description" in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
110	11.4.4.2.27	WD	E		"Behaviour" not same as "Description" in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
111	11.4.4.2.28	WD	E		"Behaviour" not same as "Description" in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
112	11.4.4.2.29	WD	e		aCTSTimeout is not defined in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
113	11.4.4.2.3	WD	E		Missing "behaviour".	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
114	11.4.4.2.30	WD	E		"Behaviour" not same as "Description" in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
115	11.4.4.2.31	WD	E		"Behaviour" not same as "Description" in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
116	11.4.4.2.33	WD	E		"Behaviour" not same as "Description" in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65

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117	11.4.4.2.37	AS	t	y	This section only describes timing of fragmented MSDUs. I believe the intent of the standard is to allow fragmentation of MMPDUs.	Change occurrences "MSDU" to "MSDU or MMPDU".	WITHDRAWN: (OK with AS)
118	11.4.4.2.38	AS	t	y	This section only describes timing of fragmented MSDUs. I believe the intent of the standard is to allow fragmentation of MMPDUs.	Change occurrences "MSDU" to "MSDU or MMPDU".	ACCEPTED: (OK with AS)
119	11.4.4.2.5	WD	E		Missing "behaviour".	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
120	11.4.4.3.1	WD	E		Missing "behaviour".	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
121	11.4.4.3.2	WD	E		Missing "behaviour".	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
122	11.4.5.1.1	WD	e		acInitializeSMT is named acInitializeSMT in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
123	11.4.5.2.1	WD	e		acInitializeMAC is named acInitializeMAC in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
124	11.4.5.2.2	WD	e		acAddGroupAddress is named acAddGroupAddress in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
125	11.4.5.2.3	WD	e		acDeleteGroupAddress is named acDeleteGroupAddress in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
126	11.4.6.1.1	WD	e		nAssociate is not defined in Annex D.	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
127	11.4.6.1.2	WD	e		nDisassociate is not defined in Annex D	Suggest to remove the definitions in the std body (11.4), and to correct Annex D as applicable.	See resolution in comment 65
128	11.5.5.2	PMK	e		"...PMD_DATA indicated is generate to all...."	"is generated to all"	See resolution in comment 65

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129	11.all all sections	TLP	e		MS Word superscript and subscript font attributes produce unacceptable results.	<p>Do not use MS-Word subscripting or superscripting; MS-Word makes the resulting text TOO SMALL. Instead, select the characters to become the subscript or superscript and use Format/Font/Font/Size/8 and Format/Font/Character Spacing/Position/Lowered and Format/Font/Character Spacing/By/2 for a subscript, and Format/Font/Font/Size/8 and Format/Font/Character Spacing/Position/Raised and Format/Font/Character Spacing/By/3 for a superscript.</p> <p>(This is corrected in the submitted revision-marked files.</p>	<b>Accepted</b>
130	11.1.3.2 .2	vh			<p>for <b>Keith Amundsen Active Scanning Procedure. For a frequency hopping PHY, active scanning consists of trying to communicate via probe and probe responses on each frequency channel. For acquisition, it is desirable to minimize the time needed to sit on each channel before stepping to the next one.</b></p>	<p>To increase the probability of Probes and Probe Responses being transmitted in a timely fashion (before timeout of aMinProbeResponseTime), these messages should employ a shorter contention window that that used for other messages. This would bias access to the medium in favor of probes and probe responses before other messages. A contention window of 3 slots is suggested for probes and probe responses.</p>	<p><b>REJECTED:</b></p> <p><b>at the plenary.</b></p> <p><b>(OK with Keith).</b></p>