# **Results of LMSC Ballot on Draft Standard 802.11 D5.0**

# **Resolutions for Comments on Annexes**

| Seq. | Clause   | your   | Cmnt  | Part | Comment/Rationale  | <b>Recommended change</b>                         | Disposition/Rebuttal   |
|------|--|--------|-------|------|--|---|--|
| #    | number   | voter' | type  | of   |  |   |  |
|      |  | s ID   | E, e, | NO   |  |   |  |
|      |  | code   | T, t  | vote |  |   |  |
| 1    | A.4.4.1<br>11.4<br>A.4.4.1<br>PC15.1<br>PC15.2<br>PC15.3<br>Annex<br>D | GMG    | Τ     | Y    | Currently the entire MIB is specified to be<br>mandatory for Standard Compliance.<br>Since the MIB is not required for interoperability<br>between stations, this is considered far to restrictive.<br>Therefore its support should be optional, which<br>brings this standard more in line with the other 802<br>standards, none of which define the MIB to be<br>mandatory.<br>The intend of standardizing should be that when a<br>MIB is provided it should use the definitions defined<br>in the optional MIB.                            | Make the Status of all items in PC15<br>Optional. | Accepted. The management<br>function will be optional, but if<br>implemented it shall be<br>implemented using the MIB as<br>described in the standard. |
| 2    | A.4.4.1<br>11.4<br>PC15.1<br>PC15.2<br>PC15.3<br>Annex<br>D            | WD     | Τ     | Y    | Currently the whole MIB is specified to be<br>mandatory for Standard Compliance.<br>This is considered far to restrictive.<br>Sinse the MIB is not required for interoperability<br>between stations, its support should be optional.<br>This is also more in line with the other 802<br>standards, none of which define the MIB to be<br>mandatory.<br>By defining the MIB to be optional, the intend of<br>standerdizing its use when implemented is met,<br>because it means; When a MIB is supported then this<br>is to be its definition. | Make the Status of all items in PC15<br>Optional. | Accepted.  |

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| #    | number | voter' | type  | of   |                   |                             |                      |  |
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| Seq. | Clause | your   | Cmnt  | Part | <b>Comment/Rationale</b>                                  | <b>Recommended change</b>  | <b>Disposition/Rebuttal</b>     |
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| #    | number | voter' | type  | of   |   |  |                                 |
|      |        | s ID   | Е, е, | NO   |   |  |                                 |
|      |        | code   | T, t  | vote |   |  |                                 |
| 3    | A.4.5  | vh     | Е     |      | The item identification column is inconsistent with       | Change in the Item column all                                    | Accepted.                       |
|      |        |        |       |      | the majority of other MIB item identifications. The       | occurrences of "14." into "FH".                                  | TEXT_NOT_CHANGED                |
|      |        |        |       |      | change in the next column will make it will make          | Change in the status column all                                  |                                 |
|      |        |        |       |      | consistent  | occurrences of 14.2 into FH2                                     |                                 |
| 4    | A.4.5  | vh     | Е     |      | The definition of the option of 2 Mbit/s is not           | Replace FH2 (prior called 14.2) into                             | Accepted.                       |
|      |        |        |       |      | specified according to what I understand as the rule.     | the following 2 rows:  | TEXT_NOT_CHANGED                |
|      |        |        |       |      | 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                                  |                                 |
|      |        |        |       |      |   | Change in the status column all occurrences of FH2 (prior called |                                 |
|      |        |        |       |      |   | 14.2) into FH2.2   |                                 |
| 5    | A.4.5  | SB     | Е     | N    | For consistency Frequency Hopping PHY PICS items          | Renumber itemsFHxx; suggest                                      | Accepted.                       |
| 5    | л.н.у  | 30     | Б     | 19   | should have the formFHxx rather than 14.xx. Support       | grouping related items - such as 1M                              | Accepted.                       |
|      |        |        |       |      | column should have the form Yes No D for                  | PMD such that the item numbering is                              |                                 |
|      |        |        |       |      | mandatory items.  | FHxx.yy  |                                 |
|      |        |        |       |      | mandatory items.  | ТПХХ.УУ  |                                 |
|      |        |        |       |      |   | Support column should have the form                              |                                 |
|      |        |        |       |      |   | Yes $\Box$ No $\Box$ for mandatory items.                        |                                 |
|      |        |        |       |      |   |  |                                 |
|      |        |        |       |      |   |  |                                 |
| 6    | A.4.5  | SB     | t     | Ν    | Item 14.2 'TXVECTOR parameter: PLCPBITRATE' is            | Change item to Optional (O)                                      | Accepted. refer to comment A4.5 |
|      |        |        |       |      | marked as being mandatory. It is actually optional in the |  | by VH                           |
|      |        |        |       |      | body of the standard (14.2.2.2).                          |  | Ron/George                      |
|      |        |        |       |      |   |  | (6-0-0)                         |
| 7    | A.4.5  | SB     | e     | N    | Grouping of items and tabulation in FH and IR PICS        | Bring style into line.   | Deferred to editor. (intend to  |
|      |        |        |       |      | needs to be addressed                                     |  | Accept)                         |
| 8    | A.4.7  | vh     | Ε     |      | The item identification column is inconsistent with       | Change in the Item column all                                    | Accepted                        |
|      |        |        |       |      | the majority of other MIB item identifications. The       | occurrences of "16." into "IR".                                  | TEXT_NOT_CHANGED                |

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| #    | number | voter' | type  | of   |                   |                             |                      |  |  |
|      |        | s ID   | Е, е, | NO   |                   |                             |                      |  |  |
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| Seq.<br># | Clause<br>number | your<br>voter'<br>s ID<br>code | Cmnt<br>type<br>E, e,<br>T, t | Part<br>of<br>NO<br>vote | Comment/Rationale  | <b>Recommended change</b>   | Disposition/Rebuttal   |
|-----------|------------------|--------------------------------|-------------------------------|--------------------------|--|---|--|
|           |                  |                                |                               |                          | change in the next column will make it will make consistent  | Change in the status column all<br>occurrences of 16. into IR   |  |
| 9         | A.4.7            | vh                             | Е                             |                          | Non conventional use in row IR23   | Change C: in the status column into<br>IR5a   |  |
| 10        | A.4.7            | vh                             | e                             |                          | The first item is included as part of the header   | Remove the attribute header from this row   |  |
| 11        | A.4.7            | SB                             | Ε                             | Ν                        | For consistency Infra Red PHY PICS items should have<br>the form IRxx rather than 16.xx. Support column should<br>have the form Yes□ No □ for mandatory items.   | Renumber itemsIRxx; suggest<br>grouping related items such that the<br>item numbering isIRxx.yy<br>Support column should have the form<br>Yes I No I for mandatory items. |  |
| 12        | A.4.7            | SB                             | t                             | N                        | Regarding IR PICS items 16.25 and 16.26. My<br>understanding is that you can conform to emitter<br>radiation mask 1, or 2 (but you must conform to one or<br>the other).<br>In this case the correct PICS status is 0.1 for both items<br>rather than M.1. | Change status from M.1 to O.1 for<br>both items.  | Accepted   |
| 13        | A.4.7            | SB                             | t                             | N                        | IR PICS item 16.23 is marked a status C:M. I think this<br>item is conditional on 16.5a (should be renamed item<br>IRxx as noted in a separate comment).   | Change status to 16.5a:M<br>(Change 16.5a toIRxx when PICS<br>reformatted)  |  |
| 14        | A.4.7            | SB                             | Е                             | Ν                        | Style of IR PHY is very different to MAC, FH and DS.   | Bring style into line.  |  |
| 15        | A.4.7            | SB                             | Ε                             | Ν                        | I seem to have spurious items 16.1 and another row with<br>no reference in the IR PICS between items 16.34 and<br>16.35  | Delete spurious rows.   | Accepted.  |
| 16        | A4.5             | JMZ                            | t                             |                          | The FH PHY PICSProforma does not make it clear that<br>support for any given regulatory domain is optional. The<br>implication is that all N of them must be implemented   | Correct the PICS to indicate that<br>support for any given regulatory<br>domain is optional.  | comment accept<br>Supporting any one geographical<br>area is optional. For any |

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| Seq.<br># | Clause<br>number                          | your<br>voter'<br>s ID<br>code | Cmnt<br>type<br>E, e,<br>T, t | Part<br>of<br>NO<br>vote | Comment/Rationale   | Recommended change   | Disposition/Rebuttal  |
|-----------|---|--------------------------------|-------------------------------|--------------------------|---|--|---|
|           |   |                                |                               |                          | in any conformant device. This is a ridiculous requirement.   |  | supported geographical area, all<br>relevant technical requirements in<br>14.6.3 through 14.6.9 must be met<br>Ron/Carl (4-0-0) |
| 17        | A4.7                                      | РМК                            | e                             |                          | Item 16.34. This item is interrupted by a duplication of the write-up on item 16.1  | Delete the second iteration of item<br>16.1 and connect the two parts of item<br>16.34 | Accepted.   |
| 18        | Annex<br>A.4.4.1<br>PC8.2<br>6.1.3<br>9.8 | GMG                            | Τ                             | Y                        | The MSDU ordering provisions have been included<br>in this standard to provide an optional alternative fo<br>those applications that do require strictly ordering<br>service, for those cases where the type of frame<br>reordering introduced by the Power Management<br>buffering provisions will cause a problem.<br>The intent of this provision was to have an<br>alternative available, but it would be an option that<br>would not affect the normal implementation.<br>However the PICS does not list this provision as<br>optional.<br>Therefore these sections should be deleted, or it<br>should be made clear in the text that this is optional<br>and not mandatory functionality. | r in Annex. A.<br>OR<br>Mark this functionality as optional.                           | Accepted.   |
| 19        | Annex<br>A.4.4.1<br>PC8.2<br>6.1.3<br>9.8 | WD                             | Τ                             | Y                        | The MSDU ordering provisions were included in thi<br>standard to provide an optional alternative method<br>for those cases where the type of frame reordering<br>introduced by the Power Management buffering<br>provisions would yield a problem.<br>Partly this statement was meant to end discussions o<br>the question whether the re-ordering characteristics<br>would comply to 802 frame reordering requirements<br>The intend of this provision was to have an<br>alternative available, but it would be an option that<br>would not affect the normal implementation.  | in Annex. A.<br>OR<br>Mark this functionality as optional.<br>n                        | Accepted.   |

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| Seq. | Clause | your   | Cmnt  | Part | Comment/Rationale | Recommended change          | Disposition/Rebuttal |  |
| #    | number | voter' | type  | of   |                   |                             |                      |  |
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| Seq. | Clause                                 | your                   | Cmnt                  | Part             | Comment/Rationale  | Recommended change  | <b>Disposition/Rebuttal</b>                               |
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| #    | number                                 | voter'<br>s ID<br>code | type<br>E, e,<br>T, t | of<br>NO<br>vote |  |   |   |
|      |  |                        |                       |                  | However the subject sections and the PICS does not<br>list this provision as optional.<br>Last thing I heard was that 802 is changing its<br>requirement in this respect.<br>Therefore these sections should be deleted, or at leas<br>it should be made clear in the text that this is<br>optional and not mandatory functionality.   |   |   |
| 20   | Annex<br>A.4.4.1<br>6.1.3<br>9.8       | MAF                    | Τ                     | Y                | The strictly ordered service class wasincluded in this<br>standard to provide an alternative methods handle<br>those cases where the type of frame reordering<br>possible when usingPower Management buffering<br>might causea problemfor a higher layer protocol<br>The intent of this provision was toprovide a strictly<br>ordered alternative for the applications which may<br>require one, but not to make this facility mandatory<br>for all implementations. Unfortunatelythe cited<br>sections and the PICSdo not list thisfacility as<br>optional. | Change PC8.2 from status "M" to<br>status "O". Add a sentence to 6.1.3<br>and 9.8 to indicate the strictly<br>ordered service is optional.<br>Note that, in 6.2.1.3, the<br>transmission status of "unavailable<br>service class" is already specified to<br>be returned if strictly ordered<br>service is requested but is not<br>available. | Accepted.   |
| 21   | Annex<br>A:<br>A.4.4.1<br>item<br>PC15 | MAF                    | Τ                     | Y                | The whole MAC management information base is<br>mandatory according to this PICS entry. This is the<br>opposite from the other 802 MAC/PHY standards,<br>where the management facilities are either wholly or<br>mostly optional. In addition, there is no recognition<br>of the options in the protocol — the management<br>facilities for WEP (privacy) and the point<br>coordination function, are mandatory even though<br>both of these facilities are optional according to both<br>the text and the PICS.   | PC15.2 and PC15.3 from "M" to<br>"O". A further improvement would<br>be to set up separate sub-groups,<br>supported by separate object classes,<br>for WEP and PCF, and to tie these<br>object groups to the optional WEP   | Accepted.<br>GIGANTIC_AMOUNT_OF_<br>EDITING_STILL_REMAINS |
| 22   | Annex<br>D<br>p.334                    | WD                     | Е                     |                  | aProbeDelay<br>What is the valid range of this value?<br>Isn't this determined by the PHY MIB parameter that   | Provide the proper specification in the PHY MIB.  |   |

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|   | Seq. | Clause | your   | Cmnt  | Part | Comment/Rationale | Recommended change          | Disposition/Rebuttal |  |  |
|   | #    | number | voter' | type  | of   |                   |                             |                      |  |  |
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| Seq.              | Clause  | your   | Cmnt         | Part | Comment/Rationale  | Recommended change                     | <b>Disposition/Rebuttal</b>        |
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| эс <b>ц.</b><br># | number  | voter' | type         | of   | Comment/Rationale  | Recommended change                     | Disposition/Rebuttur               |
|                   | number  | s ID   | E, e,        | NO   |  |  |                                    |
|                   |         | code   | <b>T</b> , t | vote |  |  |                                    |
|                   | section | cour   | -,•          | ,    | specifies how long it takes to switch a channel.         |  |                                    |
|                   | 13      |        |              |      | Although I could not find such a PHY MIB value.          |  |                                    |
| 23                | Annex   | MAF    | Т            | Y    | The MAC protocol is described solely in English          | Include a precise description of the   | Proposal to MAC Group: Accept      |
|                   | С       |        |              |      | prose, supported by a few diagrams. There is no          | desired MAC behavior, either as a      | this comment by:                   |
|                   | (also   |        |              |      | formal description of the protocol behavior, either as   |  | (a) Deleting Annex D               |
|                   | relates |        |              |      | state machines or as procedures in a programming         |  | (b) Making Clause 11 (GMDO         |
|                   | to      |        |              |      | language. This is a major impediment to                  | but less desriable). The author of     | description of MIB) correct and in |
|                   | clauses |        |              |      | interoperable implementations of the standard,           | this comment will bring to the 802     | agreement with draft and           |
|                   | 8–11)   |        |              |      | especially by people who did noparticpate in the         | Plenary meeting in Vancouver a set     | normative                          |
|                   |         |        |              |      | development of the standard. Thisommenter                | of state machines which are an         | (c) Restrict GMDO to SNMP-         |
|                   |         |        |              |      | believes that, by D5.0, there is a great degree of       | attempt to define the MAC behavior     | compatible subset of possible data |
|                   |         |        |              |      | common understanding of the desired MAC behavio          | r informally described in D5.0. These  | types                              |
|                   |         |        |              |      | among the people who have been active in the MAC         | state machines, which will be in       | (d) Have Clause 11 MIB grouped     |
|                   |         |        |              |      | group for the past several years, and that the           | submission P802.11/96–132, could b     |                                    |
|                   |         |        |              |      | protocol is bothimplementable and useful. However,       | incorporated directly to become the    | criteria in the PICS               |
|                   |         |        |              |      | 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, thiscommenter 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     | 5                                      |                                    |
|                   |         |        |              |      | most likely to be misinterpreted include the             | document and/or in the introductory    |                                    |
|                   |         |        |              |      | relationship among the various long-period interval      |  |                                    |
|                   |         |        |              |      | (beacon interval, contention free repetition rate,       | describes MAC operation than the       |                                    |
|                   |         |        |              |      | dewll time, listen interval); the interaction of         | formal definition is the state         |                                    |

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

| Seq. | Clause | your   | Cmnt  | Part | Comment/Rationale  | Recommended change   | <b>Disposition/Rebuttal</b> |
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|      |        |        |       |      | indeterminite duration events (such as delivery of a<br>fragmented MSDU when one or morMPDUs | machines in Annex C, and in the event of a conflict between the text |                             |
|      |        |        |       |      | require retransmission) with time boundariesdewll  | and the state machines the state                                     |                             |
|      |        |        |       |      | boundaries, beacons, contention free periods or  | machines take precedence.  |                             |
|      |        |        |       |      | contention free medium occupancy limits); and the  | r r r  |                             |
|      |        |        |       |      | 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 the ackoff  |  |                             |
|      |        |        |       |      | 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   | 1  |                             |
|      |        |        |       |      | 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.)  |  |                             |
| 24   | Annex  | SB     | t     | Ν    | There are some inconsistencies between the MIB   | If the ASN.1 is to take precedence over                              | See 23                      |
|      | 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.  |  |                             |
|      |        |        |       |      | 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   |  |                             |

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| Seq. | Clause | your   | Cmnt  | Part | Comment/Rationale | Recommended change          | Disposition/Rebuttal |  |  |  |
| #    | number | voter' | type  | of   |                   |                             | _                    |  |  |  |
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| Seq.<br># | Clause<br>number | your<br>voter'<br>s ID<br>code | Cmnt<br>type<br>E, e,<br>T, t | Part<br>of<br>NO<br>vote | Comment/Rationale  | Recommended change | Disposition/Rebuttal |
|-----------|------------------|--------------------------------|-------------------------------|--------------------------|--|--------------------|----------------------|
|           |                  |                                |                               |                          | headers and possibly WEP.<br>AATIMWindow has a default value in 11.4 of 4Kus and<br>in the ASN.1 definition of 1000us. Again the ASN.1<br>definition is incorrect.<br>ACFPRate is defined in 11.4 as a number of DTIM<br>intervals between beacons that start a CF Period. The<br>default is 1 (one). In the ASN.1 definition <sub>a</sub> CFPRate is<br>defined as the number of beacon intervals between<br>beacons that start a CF Period. The ASN.1 definition is<br>inconsistent with the body of the standard -both 9.3.1<br>and the MIB definition - and is incorrect.<br>ACFPMaxDuration has different definitions in 11.4 and<br>in the ASN.1. The definition in 11.4 is correct and<br>needs to be moved to the ASN.1<br>aMaxRate has different definition in 11.4 is correct<br>and needs to be moved to the ASN.1<br>aFragmentationThreshold has a correctdefualt value in<br>11.4 of 2346 and an incorrect default value in the<br>ASN.1 of 2304.<br>aShortRetryLimit has a default value of 7 in 11.4 and is<br>related to frames shorter than or equal to<br>aRTSThreshold. In the ASN.1 definition it takes a<br>default value of 5 and applies to frames shorter than or<br>equal to aFragmentationThreshold in length. The 11.4<br>definition is correct and consistent with clause 9.2.5.3. |                    |                      |

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| Seq.<br># | Clause<br>number  | your<br>voter'<br>s ID<br>code | Cmnt<br>type<br>E, e,<br>T, t | Part<br>of<br>NO<br>vote | Comment/Rationale  | <b>Recommended change</b>                         | Disposition/Rebuttal    |
|-----------|---|--------------------------------|-------------------------------|--------------------------|--|---|-------------------------|
|           |   |                                |                               |                          | <ul> <li>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 thanaFragmentationThreshold in length. The 11.4 definition is correct and consistent with clause 9.2.5.3.</li> <li>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.</li> </ul> |   |                         |
| 25        | Annex<br>D<br>A.4.4.1<br>11.4<br>PC15.1<br>PC15.2<br>PC15.3 | WD                             | Τ                             | Y                        | Currently the whole MIB is specified to be<br>mandatory for Standard Compliance.<br>This is considered far to restrictive.<br>Sinse the MIB is not required for interoperability<br>between stations, its support should be optional.<br>This is also more in line with the other 802<br>standards, none of which define the MIB to be<br>mandatory.<br>By defining the MIB to be optional, the intend of<br>standerdizing its use when implemented is met,<br>because it means; When a MIB is supported then thi<br>is to be its definition.                            | Make the Status of all items in PC15<br>Optional. | Accepted, in principal. |
| 26        | Annex<br>D<br>11.4<br>and                                   | MAF                            | Τ                             |                          | The object groups in 11.4 (SMT in 11.4.2.1.1,0MAC<br>in 11.4.2.2.1) are defined according to ISO/IEC<br>10165–2, whereas the Annex D uses SNMP v2. These<br>should be consistent (unless 11.4.2.x is removed due<br>to another comment).   | Use SNMPv2 in 11.4.2.x                            | See 23 above            |
| 27        | Annex   | MAF                            | t                             |                          | There are a number of management objects which   | Remove these from the MIB.                        | Accepted                |

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

| Seq. | Clause                    | your           | Cmnt          | Part     | <b>Comment/Rationale</b>  | <b>Recommended change</b>  | <b>Disposition/Rebuttal</b>                                    |
|------|---------------------------|----------------|---------------|----------|---|--|--|
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|      |                           | s ID<br>code   | E, e,<br>T, t | vote     |   |  |  |
|      | D<br>11.4<br>and          | coue           | 1, 1          | Vote     | are actually derived values needed by the MAC, but<br>not useful, nor desirable, as managed objects. This<br>commenter believes that most of these objects exist<br>because the procedures to derive the values (mostly<br>from the characteristics of the PHY in use) are<br>difficult to specify using the text approach of clauses<br>8 through 11. These derived values are defined as<br>functions in the state machines to be submitted as<br>document P802.11/96–132, and should be removed a<br>managed objects whether or not those state machines<br>are incorporated into the standard. These<br>unnecessary/indesriable objects include:<br>aMaxMPDUTime<br>aCTSSize<br>aACKSize<br>aACKTimeout |  | TEXT_NOT_CREATED_<br>FOR_NEW_CLAUSE_11_<br>TEXT_DEFINING_USAGE |
| 28   | Annex<br>D<br>11.4<br>and | MAF            | Ε             | {na}     | aCurrenAPMACAddress and CurrentBSSID are<br>really the same thing, "current AP MAC address" is<br>an artifact from an earlier version of the MAC  | RemoveaCurrentAPMACADDress,<br>replace any references to this with<br>references to aCurrentBSSID                          | Accepted   |
| 29   | Annex<br>D<br>11.4<br>and | MAF            | t             |          | actInitializeSMT andactInitializeMAC are rather<br>dangerous — normally an external network<br>management entity cannot reinitialize the MAC or<br>SMT during operation of the station. If these are<br>really necessary, their applicability should be<br>restricted to occur when not associated (or to force<br>an end to all active communication and require<br>reassociation before communication can resume).  | Recommend deleting these actions,<br>otherwise restrict their applicability<br>and effect to times when not<br>associated. | Accepted   |
| 30   | Annex<br>D 11.4<br>and    | MAF            | t             |          | aKnownAPs table andaGroupAddresses table may<br>be worth having as readable objects, but should not<br>have read–write access. These are not things which<br>should be set via an external management entity —<br>the APs are discovered by the station using the   | make both of these tables read–only<br>remove actAddGroupAddress and<br>actDeleteGroupAddress                              | Accepted   |

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| #    | number | voter' | type  | of   |                   |                             |                             |  |  |
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|           |                  | s ID           | E, e,        | NO         |   |   |                        |
|           |                  | code           | T, t         | vote       |   |   |                        |
|           |                  |                |              |            | specified scanning procedures while the group   |   |                        |
|           |                  |                |              |            | addresses are determined by higher layer protocols.                                   |   |                        |
| 31        | Annex            | GMG            | Т            | Y          | Currently the entire MIB is specified to be   | Make the Status of all items in PC15      | Accepted in principal. |
|           | D                |                |              |            | mandatory for Standard Compliance.  | Optional.                                 |                        |
|           | A.4.4.1          |                |              |            | Since the MIB is not required for interoperability                                    |   |                        |
|           | 11.4             |                |              |            | between stations, this is considered far to restrictive.                              |   |                        |
|           |                  |                |              |            | Therefore its support should be optional, which                                       |   |                        |
|           | A.4.4.1          |                |              |            | brings this standard more in line with the other 802                                  |   |                        |
|           | PC15.1<br>PC15.2 |                |              |            | standards, none of which define the MIB to be   |   |                        |
|           | PC15.2<br>PC15.3 |                |              |            | mandatory.<br>The intend of standardizing should be that when a                       |   |                        |
|           | PC15.5           |                |              |            | MIB is provided it should use the definitions defined                                 |   |                        |
|           |                  |                |              |            | in the optional MIB.  |   |                        |
|           |                  |                |              |            | in the optional wird.   |   |                        |
|           |                  |                |              |            |   |   |                        |
| 32        | Annex            | WD             | t            |            | The specification of the ATIM window is inconsisten                                   | t Update Annex. D accordingly.            | Accepted               |
|           | D.               |                |              |            | between the subject sections.   | L OU                                      | TEXT_NOT_CHANGED       |
|           | 11.2.2.1         |                |              |            | Section 11.4.4.1 specifies 4Kusec   |   |                        |
|           | &                |                |              |            | Annex D specifies 1000, while the units are not                                       |   |                        |
|           | 11.4.4.1         |                |              |            | specified.  |   |                        |
|           | .27              |                |              |            | Suggest to specify 4Kusec, which will suit the DS and                                 |   |                        |
|           | &                |                |              |            | FH Phy.   |   |                        |
| 22        |                  | IUD            |              |            |   |   |                        |
| 33        | Annex.           | WD             | e            |            | MIB-header  | Suggest to remove the definitions         |                        |
|           | C                |                |              |            | Various imported definitions are not used. Suggest to remove those that are not used. | that are not used.                        |                        |
|           | p.312            |                |              |            | SNMPv2-PARTY-MIB is not a valid standard anymore                                      |   |                        |
|           |                  |                |              |            | (its status is 'Historic'). The 802.11 MIB should not                                 |   |                        |
|           |                  |                |              |            | refer to that one.  |   |                        |
|           |                  |                |              |            |   |   |                        |
|           |                  |                |              |            |   |   |                        |
| 34        | Annex.           | WD             | Ε            |            | aActingasWirelessAPStatus   | <b>Remove the MIB definition for this</b> |                        |
|           | C                |                |              |            | This is a characteristic of a system, not of the MAC                                  | attribute.                                |                        |

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| Seq. | Clause | your   | Cmnt  | Part | Comment/Rationale | Recommended change          | Disposition/Rebuttal |  |  |  |
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|-----------|---|--------------------------------|-------------------------------|--------------------------|--|--|--|
|           | p.315   |                                |                               |                          | layer. The MAC layer may not be aware of this at all.<br>In addition it only seems to be a GET parameter.  |  |  |
| 35        | Annex.<br>C<br>p.316                              | WD                             | Е                             |                          | aScanMode<br>Is it not up to the vendor's implementation to determine<br>what scan mode is used? Why must the user be given<br>management control over this?   | Remove the MIB definition for this attribute.  |  |
| 36        | Annex.<br>C<br>p.317                              | WD                             | Ε                             |                          | aScanState<br>This is a very trancient attribute. It would depend on<br>pure luck for a management system to read this as<br>'true'.   | Remove the MIB definition for this attribute.  |  |
| 37        | Annex.<br>D<br>11.4<br>PC15.1<br>PC15.2<br>PC15.3 | WD                             | T                             | у                        | According to the current PICS we should support a<br>full MIB, even when we do not implement the option<br>like WEP and PCF.<br>This is clearly not acceptable.<br>The MIB and PICSproforma should be restructured<br>such that it allows for exclusion of the MIB items tha<br>are associated with optional functionality in the<br>standard.<br>The prime purpose of the MIB definitions is to<br>provide a common understanding of objects for<br>Network Management and diagnostic purposes.<br>However the vast majority of the MIB definitions ar<br>not relevant for Network Management purposes.<br>Part of the currently defined MIB (especially the<br>PHY MIBs) are primarily there to provide relevant<br>PHY dependent parameters for the MAC. These in<br>particular are not relevant for Network Managemen<br>purposes.<br>Furthermore the control of most controllable MIB<br>parameters will be very implementation specific, and<br>do fully depend on the actual configuration and<br>configuration mechanism provided by the vendor of<br>the end product. | <ul> <li>restructured to allow exclusion of items associated with optional functionality that is not implemented.</li> <li>t This relates in particular to the WEP and PCF functionality.</li> <li>The MIB and PICS should be restructured to define subsets that are relevant for Network Management and e Diagnostic purposes.</li> <li>In particular this relates to the following subset.</li> <li>t Section 11.4.3.2.2agCountergrp aMaxRate, aManufacturerID, aProductID, aPrivacyOptionImplemented.</li> </ul> | Accepted (the optionality part<br>TEXT_NOT_UPDATED)<br>WILL_USE_AS_GUIDANCE_<br>FOR_REFORMATTING |

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| Seq.<br># | Clause<br>number | your<br>voter'<br>s ID<br>code | Cmnt<br>type<br>E, e,<br>T, t | Part<br>of<br>NO<br>vote | Comment/Rationale<br>It would be desirable to specify a MIB subset that is<br>relevant for Network Management purposes,  | Recommended change   | Disposition/Rebuttal |
|-----------|------------------|--------------------------------|-------------------------------|--------------------------|--|--|----------------------|
| 38        | p.314<br>5.2.3   | WD                             | Ε                             |                          | especially those that provide statistic information.<br>agStationConfigGrp<br>Items related to Contention Free operation &CFPRate,<br>aCFPMaxDuration, aMediumOccupancyLimit, and<br>maybe aCFPollable?) should be in a separate optional<br>group | Create separate group for the MIB<br>definitions relevant for this option<br>group, containing:<br>aCFPRate, aCFPMaxDuration,<br>aMediumOccupancyLimit, and maybe<br>aCFPollable |                      |
| 39        | p.315            | WD                             | Ε                             |                          | aBeaconPeriod<br>What is the valid range of this value?<br>"kmicroseconds" should be <u>K</u> microseconds" (3x).  | "kmicroseconds" should be<br>" <u>K</u> microseconds" (3x).<br>Specify the valid range.  |                      |
| 40        | p.316            | WD                             | Ε                             |                          | aPassiveScanDuration<br>What is the valid range of this value?<br>"kmicroseconds" should be <u>K</u> microseconds".  | "kmicroseconds" should be<br>" <u>K</u> microseconds" (3x).<br>Specify the valid range.  |                      |
| 41        | p.316            | WD                             | Ε                             |                          | aListenInterval<br>What is the valid range of this value?  | Specify the valid range.   |                      |
| 42        | p.316            | WD                             | Ε                             |                          | aCFPMaxDuration<br>What is the valid range of this value?<br>"1024 microseconds" should be <u>K</u> microseconds"<br>(consistency).  | " change 1024 microseconds" into<br>" <u>K</u> microseconds"   |                      |
| 43        | p.317            | WD                             | Е                             |                          | aDTIMPeriod<br>What is the valid range of this value?  | Specify the valid range.   |                      |
| 44        | p.318            | WD                             | Ε                             |                          | aMaxMPDUTime<br>What is the significance of this for management<br>purposes? The MAC can use a derived value from the<br>PHY MIB.  | Remove the MIB definition for this attribute.  |                      |
| 45        | p.318            | WD                             | Ε                             |                          | aATIMWindow<br>What is the valid range of this value?<br>There are no units specified.<br>The default value for thisparmeter is far to low,<br>aassuming units of usec.  | Specify the valid range.<br>Specify the units to beKmicroseconds.<br>Specify a default value for this<br>parameter of either zero (no Power<br>Management) or 4Kmicroseconds.    |                      |

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| Ŧ  | t number  | voter' | type          | of   |                   |                             |                      |  |  |
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| Seq.<br># | Clause<br>number | your<br>voter'<br>s ID<br>code | Cmnt<br>type<br>E, e,<br>T, t | Part<br>of<br>NO<br>vote | Comment/Rationale   | Recommended change  | Disposition/Rebuttal |
|-----------|------------------|--------------------------------|-------------------------------|--------------------------|---|---|----------------------|
| 46        | p.318            | WD                             | Е                             |                          | aMediumOccupancyLimit<br>What is the minimum value?<br>"1024 microseconds" should be <u>K</u> microseconds"<br>(consistency).                   | Specify the minimum value.<br>"1024 microseconds" should be<br>" <u>K</u> microseconds" |                      |
| 47        | p.320            | WD                             | Ε                             |                          | aAuthenticationAlgorithm<br>Typo: "algorithm <u>s</u> " should be "algorithm".  | Typo: "algorithm <u>s</u> " should be<br>"algorithm".                                   |                      |
| 48        | p.322            | WD                             | Ε                             |                          | aCurrentAPMACAddress andaCurrentBSSID<br>What is the difference between these two objects? Do we<br>really need these two?                      | Suggest to delete<br>aCurrentAPMACAddress   |                      |
| 49        | p.323            | WD                             | Ε                             |                          | aKnownAPs table<br>What is the significance of this for management<br>purposes? And why does it have Read <u>Write</u> access?                  | Remove the MIB definition for this attribute.   |                      |
| 50        | p.326            | WD                             | Ε                             |                          | aExcludeUnencrypted<br>Default should be specified. (presumably default is false  | Default should be specified to be false.  |                      |
| 51        | p.330            | WD                             | Ε                             |                          | aGroupAddress<br>Typo: "address <u>es</u> " should be "address". "from" should<br>be "for"?   | Typo: "addres <u>es</u> " should be "address".<br>"from" should be "for                 |                      |
| 52        | p.332            | WD                             | Ε                             |                          | aCTSSize<br>What is the significance of this for management<br>purposes? It is a derived parameter from the PHY MIB,<br>so why is it needed?    | Remove the MIB definition for this attribute.   |                      |
| 53        | p.332            | WD                             | Ε                             |                          | aACKTimeout<br>What is the significance of this for management<br>purposes? It is a derived parameter from the PHY MIB,<br>so why is it needed? | Remove the MIB definition for this attribute.   |                      |
| 54        | p.332            | WD                             | Ε                             |                          | aMaxRate<br>The description is incorrect (see also 11.4.4.2.21).<br>"current" should be "maximum"? Should be in units of<br>100kbit/s?          | "current" should be "maximum"<br>Should be in units of 100kbit/s.                       |                      |
| 55        | p.332            | WD                             | Ε                             |                          | aRTSThreshold<br>The default value (2305) is wrong. A MPDU can be up  | Set default to 3000   |                      |

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|-----------|------------------|--------------------------------|-------------------------------|--------------------------|---|--|----------------------|
|           |                  |                                |                               |                          | to 2346 octets long. Section 11.4.4.2.22 specifies this as 3000.  |  |                      |
| 56        | p.333            | WD                             | Ε                             |                          | aShortRetryLimit<br>The description referes to aFragmentationThreshold;<br>this should beaRTSThreshold?<br>What is the valid range of this value?   | <b>Change</b> aFragmentationThreshold<br>into aRTSThreshold.<br>Specify the valid range. |                      |
| 57        | p.333            | WD                             | Ε                             |                          | aLongRetryLimit<br>The description referes to aFragmentationThreshold;<br>shouldn't this beaRTSThreshold?<br>What is the valid range of this value?   | <b>Change</b> aFragmentationThreshold<br>into aRTSThreshold.<br>Specify the valid range. |                      |
| 58        | p.334            | WD                             | e                             |                          | aMinProbeResponseTime<br>"kmicroseconds" should be <u>K</u> microseconds".  | "kmicroseconds" should be<br>" <u>K</u> microseconds".                                   |                      |
| 59        | p.334            | WD                             | e                             |                          | aMaxProbeResponseTime "kmicroseconds".  | "kmicroseconds" should be<br>" <u>K</u> microseconds".                                   |                      |
| 60        | p.334 &<br>335   | WD                             | e                             |                          | aMaxTransmitMSDULifetime<br>What is the valid range of this value?<br>"kmicroseconds" should be <u>K</u> microseconds".   | Specify the valid range.<br>"kmicroseconds" should be<br>" <u>K</u> microseconds".       |                      |
| 61        | p.335            | WD                             | e                             |                          | aMaxReceiveMSDULifetime<br>What is the valid range of this value?<br>"kmicroseconds" should be <u>K</u> microseconds".  | Specify the valid range.<br>"kmicroseconds" should be<br>" <u>K</u> microseconds".       |                      |
| 62        | p.336-<br>340    | WD                             | E                             |                          | All counters (including p.326ICVErrorCount; see also<br>top of p.314):<br>It is better to define counters as Read-only. This is<br>common practice in SNMP-based network management.<br>Writing (resetting) a counter may interfere with an<br>analysis done from another management station. |  |                      |
| 63        | p.338            | WD                             | Ε                             |                          | aFailedCount<br>The "retrymax value" should be specified, as<br>"aShortRetryLimit oraLongRetryLimit".   |  |                      |

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|      |        | s ID   | E, e, | NO   |                   |                             |                      |  |  |
|      |        | code   | T, t  | vote |                   |                             |                      |  |  |

| Seq.<br># | Clause<br>number | your<br>voter'<br>s ID<br>code | Cmnt<br>type<br>E, e,<br>T, t | Part<br>of<br>NO<br>vote | Comment/Rationale   | Recommended change   | Disposition/Rebuttal |
|-----------|------------------|--------------------------------|-------------------------------|--------------------------|---|--|----------------------|
| 64        | p.340            | WD                             | Е                             |                          | aErrorCount<br>When is this counter to be updated?  |  |                      |
| 65        | p.343 & 344      | WD                             | Ε                             |                          | aRecourceInfo table<br>Why do these objects have Read <u>Write</u> access? Should<br>be Read-only.  |  |                      |
| 66        | p.346            | WD                             | Ε                             |                          | aSlotTime<br>What is the significance of this for management<br>purposes?   | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiplePHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes. |                      |
| 67        | p.346            | WD                             | Ε                             |                          | aPHYType<br>The SYNTAX defines this as an Integer32, while the<br>description defines this a an 8-bit integer. Please, define<br>this as an enumerated integer. |  |                      |
| 68        | p.346            | WD                             | Ε                             |                          | aSlotTime<br>The description refers to various incorrect attribute<br>names.  |  |                      |
| 69        | p.346 &<br>347   | WD                             | Ε                             |                          | aCCAAsmntTime<br>What is the significance of this for management<br>purposes?   | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiplePHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes. |                      |
| 70        | p.347            | WD                             | Ε                             |                          | aRxTxTurnaroundTime<br>What is the significance of this for management  | Remove this definition from Annex<br>D, as it a PHY definition that is   |                      |

|      | Novemb | oer 19 | 96    |      |                   | doc.: IEEE P802.11-96/156-9 |                      |  |
|------|--------|--------|-------|------|-------------------|-----------------------------|----------------------|--|
| Seq. | Clause | your   | Cmnt  | Part | Comment/Rationale | Recommended change          | Disposition/Rebuttal |  |
| #    | number | voter' | type  | of   |                   |                             |                      |  |
|      |        | s ID   | Е, е, | NO   |                   |                             |                      |  |
|      |        | code   | T, t  | vote |                   |                             |                      |  |

| Seq. | Clause | your   | Cmnt  | Part | Comment/Rationale                               | Recommended change                       | <b>Disposition/Rebuttal</b> |
|------|--------|--------|-------|------|---|--|-----------------------------|
| #    | number | voter' | type  | of   |   |  |                             |
|      |        | s ID   | Е, е, | NO   |   |  |                             |
|      |        | code   | T, t  | vote |   |  |                             |
|      |        |        |       |      | purposes?                                       | being defined for multiplePHY's in       |                             |
|      |        |        |       |      |   | section 13.                              |                             |
|      |        |        |       |      |   | The value is fixed per PHY, and is of    |                             |
|      |        |        |       |      |   | no interrest for Management              |                             |
|      |        |        |       |      |   | purposes.                                |                             |
| 71   | p.347  | WD     | Е     |      | aTxPLCPDelay                                    | <b>Remove this definition from Annex</b> |                             |
|      |        |        |       |      | What is the significance of this for management | D, as it a PHY definition that is        |                             |
|      |        |        |       |      | purposes?                                       | being defined for multiplePHY's in       |                             |
|      |        |        |       |      |   | section 13.                              |                             |
|      |        |        |       |      |   | The value is fixed per PHY, and is of    |                             |
|      |        |        |       |      |   | no interrest for Management              |                             |
|      |        |        |       |      |   | purposes.                                |                             |
| 72   | p.347  | WD     | Е     |      | aRxTxSwitchTime                                 | <b>Remove this definition from Annex</b> |                             |
|      |        |        |       |      | What is the significance of this for management | D, as it a PHY definition that is        |                             |
|      |        |        |       |      | purposes?                                       | being defined for multiplePHY's in       |                             |
|      |        |        |       |      |   | section 13.                              |                             |
|      |        |        |       |      |   | The value is fixed per PHY, and is of    |                             |
|      |        |        |       |      |   | no interrest for Management              |                             |
|      |        |        |       |      |   | purposes.                                |                             |
| 73   | p.347  | WD     | Е     |      | aTxRampOnTime                                   | <b>Remove this definition from Annex</b> |                             |
|      |        |        |       |      | What is the significance of this for management | D, as it a PHY definition that is        |                             |
|      |        |        |       |      | purposes?                                       | being defined for multiplePHY's in       |                             |
|      |        |        |       |      |   | section 13.                              |                             |
|      |        |        |       |      |   | The value is fixed per PHY, and is of    |                             |
|      |        |        |       |      |   | no interrest for Management              |                             |
|      |        |        |       |      |   | purposes.                                |                             |
| 74   | p.347  | WD     | Е     |      | aSIFSTime                                       | <b>Remove this definition from Annex</b> |                             |
|      |        |        |       |      | What is the significance of this for management | D, as it a PHY definition that is        |                             |
|      |        |        |       |      | purposes?                                       | being defined for multiplePHY's in       |                             |
|      |        |        |       |      |   | section 13.                              |                             |
|      |        |        |       |      |   | The value is fixed per PHY, and is of    |                             |
|      |        |        |       |      |   | no interrest for Management              |                             |
|      |        |        |       |      |   | purposes.                                |                             |

|      | Novemb | oer 199 | 96    |      |                   | doc.: IEEE P802.11-96/156-9 |                      |  |  |
|------|--------|---------|-------|------|-------------------|-----------------------------|----------------------|--|--|
| Seq. | Clause | your    | Cmnt  | Part | Comment/Rationale | Recommended change          | Disposition/Rebuttal |  |  |
| #    | number | voter'  | type  | of   |                   |                             |                      |  |  |
|      |        | s ID    | Е, е, | NO   |                   |                             |                      |  |  |
|      |        | code    | T, t  | vote |                   |                             |                      |  |  |

| Seq.<br># | Clause<br>number | your<br>voter'<br>s ID<br>code | Cmnt<br>type<br>E, e,<br>T, t | Part<br>of<br>NO<br>vote | Comment/Rationale  | Recommended change  | Disposition/Rebuttal |
|-----------|------------------|--------------------------------|-------------------------------|--------------------------|--|---|----------------------|
| 75        | p.347            | WD                             | Ε                             |                          | aRxRFDelay<br>What is the significance of this for management<br>purposes?             | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiplePHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes.  |                      |
| 76        | p.347            | WD                             | Ε                             |                          | aRxPLCPDelay<br>What is the significance of this for management<br>purposes?           | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiple PHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes. |                      |
| 77        | p.347            | WD                             | E                             |                          | aRxTxTurnaroundTime<br>The description refers to various incorrect attribute<br>names. |   |                      |
| 78        | p.347            | WD                             | E                             |                          | aSIFSTime<br>The description refers to various incorrect attribute<br>names.           |   |                      |
| 79        | p.347 & 348      | WD                             | E                             |                          | aTxRFDelay<br>What is the significance of this for management<br>purposes?             | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiplePHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes.  |                      |
| 80        | p.348 & 349      | WD                             | Ε                             |                          | aTxRampOffTime<br>What is the significance of this for management<br>purposes?         | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiple PHY's in   |                      |

|      | Novemb | oer 19 | 96    |      |                   | doc.: IEEE P802.11-96/156-9 |                      |  |  |
|------|--------|--------|-------|------|-------------------|-----------------------------|----------------------|--|--|
| Seq. | Clause | your   | Cmnt  | Part | Comment/Rationale | Recommended change          | Disposition/Rebuttal |  |  |
| #    | number | voter' | type  | of   |                   |                             |                      |  |  |
|      |        | s ID   | Е, е, | NO   |                   |                             |                      |  |  |
|      |        | code   | T, t  | vote |                   |                             |                      |  |  |

| Seq.<br># | Clause<br>number | your<br>voter'<br>s ID<br>code | Cmnt<br>type<br>E, e,<br>T, t | Part<br>of<br>NO<br>vote | Comment/Rationale   | Recommended change   | Disposition/Rebuttal |
|-----------|------------------|--------------------------------|-------------------------------|--------------------------|---|--|----------------------|
|           |                  |                                |                               |                          |   | section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes.   |                      |
| 81        | p.349            | WD                             | Ε                             |                          | aPreambleLngth<br>What is the significance of this for management<br>purposes?      | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiplePHY's in<br>section 13.The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes.     |                      |
| 82        | p.349            | WD                             | Ε                             |                          | aPLCPHdrLngth<br>What is the significance of this for management<br>purposes?       | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiplePHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes. |                      |
| 83        | p.349            | WD                             | Ε                             |                          | aMPDUDurationFactor<br>What is the significance of this for management<br>purposes? | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiplePHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes. |                      |
| 84        | p.349            | WD                             | Ε                             |                          | aAirPropagationTime<br>What is the significance of this for management<br>purposes? | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiplePHY's in<br>section 13.The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes.     |                      |

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

| Seq.<br># | Clause<br>number | your<br>voter'<br>s ID<br>code | Cmnt<br>type<br>E, e,<br>T, t | Part<br>of<br>NO<br>vote | Comment/Rationale  | Recommended change   | Disposition/Rebuttal   |
|-----------|------------------|--------------------------------|-------------------------------|--------------------------|--|--|--|
| 85        | p.349            | WD                             | Ε                             |                          | aMPDUDurationFactor<br>In what units is this to be specified?  |  |  |
| 86        | p.349            | WD                             | Ε                             |                          | aAirPropagationTime<br>In what units is this to be specified?  |  |  |
| 87        | p.349            | WD                             | Е                             |                          | aTempType<br>In what units is this to be specified?  |  |  |
| 88        | p.350            | WD                             | T                             | Y                        | aCWmin<br>What is the significance of this for management<br>purposes?<br>Further this parameter is still specified to be Get-<br>REPLACE in the MAC MIB section 11.4, which should<br>be GET only. This parameter is also in the PHY MIB,<br>which is the correct place, because the parameter is<br>different per PHY. | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiplePHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes.<br>It should be deleted from the MAC<br>MIB, and its status should be GET<br>only.  | Accepted (will address in new<br>Clause 11 Internal Values text)<br>TEXT_NOT_IMPLEMENTED |
| 89        | p.350            | WD                             | T                             | Y                        | aCWmax<br>What is the significance of this for management<br>purposes?<br>Further this parameter is still specified to be Get-<br>REPLACE in the MAC MIB section 11.4, which should<br>be GET only. This parameter is also in the PHY MIB,<br>which is the correct place, because the parameter is<br>different per PHY. | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiple PHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes.<br>It should be deleted from the MAC<br>MIB, and its status should be GET<br>only. | See 88   |
| 90        | p.350            | WD                             | E                             |                          | aRegDomainsSuprt   |  |  |

| _   | Noveml   | ber 19 | 96            |      | doc.: IEEE P802.11-96/156-9 |                    |                      |  |  |  |
|-----|----------|--------|---------------|------|-----------------------------|--------------------|----------------------|--|--|--|
| Sec | . Clause | your   | Cmnt          | Part | Comment/Rationale           | Recommended change | Disposition/Rebuttal |  |  |  |
| #   | number   | voter' | type          | of   |                             |                    |                      |  |  |  |
|     |          | s ID   | <b>E</b> , e, | NO   |                             |                    | 1                    |  |  |  |
|     |          | code   | T, t          | vote |                             |                    |                      |  |  |  |

| Seq.<br># | Clause<br>number | your<br>voter'<br>s ID<br>code | Cmnt<br>type<br>E, e,<br>T, t | Part<br>of<br>NO<br>vote | Comment/Rationale Values are not in-line with the definition of  | Recommended change  | Disposition/Rebuttal |
|-----------|------------------|--------------------------------|-------------------------------|--------------------------|--|---|----------------------|
|           |                  |                                |                               |                          | aRegDomainsSuprtValue (p.351).   |   |                      |
| 91        | p.351            | WD                             | Е                             |                          | aRegDomainsSuprtValue<br>The SYNTAX defines this as an Integer32, while the<br>description defines this a an 8-bit integer. Please, define<br>this as an enumerated integer. |   |                      |
| 92        | p.352 &<br>353   | WD                             | Ε                             |                          | aSuprtDataRatesRx<br>Typo: "transmit' should be "receive".<br>DEFVAL {NULL} ??.  |   |                      |
| 93        | p.353            | WD                             | Ε                             |                          | aPrefMaxMPDUFrgmntLngth<br>The description refers to its own name in an incorrect<br>way (_s!).  |   |                      |
| 94        | p.353 -<br>355   | WD                             | Ε                             |                          | agAntennaList<br>What is the significance of this whole group for<br>management purposes?  | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiple PHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes. |                      |
| 95        | p.355 -<br>356   | WD                             | Ε                             |                          | agPhyAntennaGrp<br>What is the significance of this whole group for<br>management purposes?  | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiple PHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes. |                      |
| 96        | p.357 -<br>359   | WD                             | Ε                             |                          | agPhyTxPwrGrp<br>What is the significance of this whole group for<br>management purposes?  | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiplePHY's in  |                      |

| ]    | Novemb | oer 19 | 96    |      |                   | doc.: IEEE P802.11-96/156-9 |                      |  |  |
|------|--------|--------|-------|------|-------------------|-----------------------------|----------------------|--|--|
| Seq. | Clause | your   | Cmnt  | Part | Comment/Rationale | Recommended change          | Disposition/Rebuttal |  |  |
| #    | number | voter' | type  | of   |                   |                             |                      |  |  |
|      |        | s ID   | Е, е, | NO   |                   |                             |                      |  |  |
|      |        | code   | T, t  | vote |                   |                             |                      |  |  |

| Seq.<br># | Clause<br>number | your<br>voter'<br>s ID<br>code | Cmnt<br>type<br>E, e,<br>T, t | Part<br>of<br>NO<br>vote | Comment/Rationale  | Recommended change  | Disposition/Rebuttal |
|-----------|------------------|--------------------------------|-------------------------------|--------------------------|--|---|----------------------|
|           |                  |                                |                               |                          | (Note: agPhyFHSSGrp not analyzed)  | section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes.  |                      |
| 97        | p.363            | WD                             | Ε                             |                          | aCCAModeSuprt<br>What is the significance of this for management<br>purposes?  | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiplePHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes.  |                      |
| 98        | p.363            | WD                             | Ε                             |                          | aCurrentCCAMode<br>What is the significance of this for management<br>purposes?  | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiple PHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes. |                      |
| 99        | p.363            | WD                             | Ε                             |                          | aCurrentChannel<br>In what units is this to be specified? Please define.   |   |                      |
| 100       | p.363 -<br>p.366 | WD                             | Ε                             |                          | aCCAModeSuprt<br>What values?<br>aCurrentCCAMode<br>What values?<br>aEDThreshold<br>What values?<br>aCurrentPowerState<br>What values? |   |                      |
| 101       | p.364            | WD                             | Ε                             |                          | aSynthesizerLocked<br>What is the significance of this (group) for management  | Remove this definition from Annex<br>D, as it a PHY definition that is  |                      |

|      | Novemb | oer 19 | 96    |      |                   | doc.: IEEE P802.11-96/156-9 |                      |  |  |  |
|------|--------|--------|-------|------|-------------------|-----------------------------|----------------------|--|--|--|
| Seq. | Clause | your   | Cmnt  | Part | Comment/Rationale | Recommended change          | Disposition/Rebuttal |  |  |  |
| #    | number | voter' | type  | of   |                   |                             |                      |  |  |  |
|      |        | s ID   | Е, е, | NO   |                   |                             |                      |  |  |  |
|      |        | code   | T, t  | vote |                   |                             |                      |  |  |  |

| Seq.<br># | Clause<br>number | your<br>voter'<br>s ID<br>code | Cmnt<br>type<br>E, e,<br>T, t | Part<br>of<br>NO<br>vote | Comment/Rationale  | <b>Recommended change</b>  | Disposition/Rebuttal |
|-----------|------------------|--------------------------------|-------------------------------|--------------------------|--|--|----------------------|
|           |                  |                                |                               |                          | purposes?  | being defined for multiplePHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes.   |                      |
| 102       | p.365 -<br>367   | WD                             | Ε                             |                          | agPhyPwrSavingGrp<br>What is the significance of this (group) for management<br>purposes?  | Remove this definition from Annex<br>D, as it a PHY definition that is<br>being defined for multiplePHY's in<br>section 13.<br>The value is fixed per PHY, and is of<br>no interrest for Management<br>purposes. |                      |
| 103       | p.366            | WD                             | Ε                             |                          | aDozeTurnonTime through<br>agPhyPwrSavingGrpStatus.<br>aDozeTurnonTime is defined as {<br>agPhyPwrSavingGrpEntry 4 } while there is no '3'.<br>This object and all following in the group should be<br>renumbered. |  |                      |