IEEE P802.11
Wireless LANs

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| 802.11 TGac WG Letter Ballot LB188Proposed resolutions for MIB related comments |
| Date: 2012-09-05 |
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Abstract

This submission contains proposed comment resolutions to comments received during WG letter ballot 188 in Annex C (ASN.1 encoding of the MAC and PHY MIB).

The comments with resolutions proposed are:

6699, 6700, 6787, 6428

# Note to database owner

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# Comments

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| **CID** | **Page** | **Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 6699 | 2133.00 |  | C.3 | Correction in dot11FragmentationThreshold. | "It is written by an external management entity.Changes take effect as soon as practical in the implementation.This attribute specifies the current maximum size, in octets, of the MPDUthat may be delivered to the security encapsulation. This maximum sizedoes not apply when an MSDU is transmitted using an HT-immediate or HTdelayedBlock Ack agreement, or when an MSDU or MMPDU is carried in an AMPDU" \*\*\*that does not contain a VHT single MPDU\*\*\* | ACCEPTED |

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| 6700 | 2133.00 |  | C.3 | For dot11RTSThreshold, 11n increased the default value to max possible aggregate size 65536 to avoid RTS-CTS overhead. Now for 11ac the max aggregate can be 1048575 and therefore it might be good if default value, which is 32 bit integer, can be set to 1048576 to avoid rts/cts when aggregate > 64kAlso small correction in dot11FragmentationThreshold. | dot11RTSThreshold OBJECT-TYPESYNTAX Unsigned32 (0..65536 CHANGE TO 1048576) | REJECTED. dot11RTSThreshold is MPDU size threshold not an A-MPDU size threshold. Fragmentation is per MPDU and 65536 is larger than the largest possible MPDU. |

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| 6787 | 340.33 | 33 | C.3 | "must" is a term that is specifically deprecated in IEEE standards. | Replace "must have" with "has". | ACCEPTED |

# Discussion

Context:

dot11TxPowerLevelExtended OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(2..256))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a capability variable.

Its value is determined by device capabilities.

It has an even number of octets. It is organized as a variable

length list of octet pairs, where each octet pair defines a big-endian 16-

bit integer. The N-th integer represents the N-th EIRP, in units of 250

microWatts. The values dot11TxPowerLevel1 to dot11TxPowerLevel<min(8,

dot11NumberSupportedPowerLevelsImplemented)> inclusive, in order, correspond

to the first to min(8, dot11NumberSupportedPowerLevelsImplemented)-

th integers in this variable. Where dot11TxPowerLevel1 to

dot11TxPowerLevel<min(8, dot11NumberSupportedPowerLevelsImplemented)>

inclusive contain EIRP values then, when converted from units of milli-

Watts to 250 microWatts, they shall appear in order in positions 1 to

min(8, dot11NumberSupportedPowerLevelsImplemented) in this variable."

::= { dot11PhyTxPowerEntry 11 }

# Comment

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| 6428 | 332.01 |  | C | Now that we can have 11k MMPDUs, some MIB variable ranges need to be extended | Increase the 2304 at 2071.2 and 2111.-5 of 802.11-2012. Look for similar issues in the amendments in the baseline | REVISED. Two MIB objects are identified in the baseline: dot11WNMRqstBssTransitCandidateList and dot11WNMBssTransitRprtCandidateList. No objects are identified in the 11aa, 11ae and 11ad amendments. It is not clear that there is a problem with the current limit of 2304, however, it is feasible that a large MMPDU may be transmitted under the conditions for which these objects apply. Change the SIZE range of the objects from 0..2304 to 0..11426 (11426 is maximum frame body size).  |

# Discussion

2071.2 refers to:

dot11WNMRqstBssTransitCandidateList OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..11426))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This is a control variable.

It is written by an external management entity when making a management

request. Changes take effect when dot11WNMRqstRowStatus is set to Active.

This attribute lists one or more Neighbor Report elements described in

8.4.2.39. If the STA has no Transition Candidate information in response

to the BSS Transition Management Query frame, the candidate list is null.

"

::= { dot11WNMRequestEntry 51 }

Another possibility alluded to by the commenter might be:

dot11WNMBssTransitRprtCandidateList OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..11426))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This is a status variable.

It is written by the SME when a management report is completed.

This attribute lists one or more Neighbor Report elements which are BSS

transition candidates for this request. The Neighbore Report elements are

described in 8.4.2.39."

::= { dot11WNMBssTransitReportEntry 7 }