**IEEE P802.11
Wireless LANs**

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| LB266 CR for Annex C  |
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| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Yongho Seok | Mediatek |  |  | yongho.seok@mediatek.com |
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Abstract

This submission proposes resolutions for multiple comments related to TGbe D2.0 with the following CIDs (14 CIDs):

* 10354, 12457, 12467, 13531, 11811, 10101, 11806, 11807, 11808, 12263, 11809, 11810, 11821, 13522

Revisions:

* Rev 0: Initial version of the document.

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the subsequent TGbe Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbe Editor: Editing instructions preceded by “TGbe Editor” are instructions to the TGbe editor to modify existing material in the TGbe draft. As a result of adopting the changes, the TGbe editor will execute the instructions rather than copy them to the TGbe Draft.***

| **CID** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- |
| 13531 | 821.21 | The start of Annex C states that the MIB(s) are to manage the processes in a station. But, the MLD is not a station, it's some "higher" entity that supports (controls?) one or more stations. So, should the MIB description be extended to apply to this new device? Should MLDs have their own MIB definition, specifically tailored to that purpose (and significantly narrowed from a general station)? | Decide how MLDs have/use a MIB, and correct the description to match. | Rejected- The cited sentence is a description of dot11smt (Station ManagemenT). So, if needed, the TGbe can define another MIB entry for the MLD that is not relevant with the SMT, (see Interworking Management Attributes). But, before making it, which MIB variable is needed in the MLD level must be agreed. (e.g., MLD MAC address)  |
| 10354 | 0.00 | While searching for dot11MultilinkActivated, I couldn't find it in C.3. Seems that the MIB is not defined. | Defne dot11MultilinkActivated in C.3. | Revised-Agree in principle with the comment.The proposed change was already approvied in D2.2. (Refer the below)TGbe Editor needs no change for the resolution of this CID. >> The definition should be added in Annex C. Since dot11MultiLinkActivated is more concise and there are some other EHT features that are not preceded by ‘EHT’(e.g. dot11RestrictedTWTOptionImplemented),it is fine to keep the original name ‘dot11MultiLinkActivated’.TGbe editor to make the changes shown in 11-22/1836r0 under all headings that include CID 10354.  |
| 12457 | 462.14 | dot11EHTEMLSROptionImplemented MIB is missing in Annex-C. Please add MIB variable. | As in comment. | Revised-Agree in principle with the comment. dot11EHTEMLSROptionImplemented MIB variable is added.TGbe editor to make the changes shown in 11-22/1835r0 under all headings that include CID 12457.  |
| 10101 | 821.63 | The MIB variable "dot11EHTEMLSROptionImplemented" definition is missing in Annex C. | Insert dot11EHTEMLSROptionImplemented to the list in dot11StationConfig TABLE and the definition after dot11RestrictedTWTOptionImplemented. | Revised-Agree in principle with the comment. dot11EHTEMLSROptionImplemented MIB variable is added.TGbe editor to make the changes shown in 11-22/1835r0 under all headings that include CID 10101.  |
| 12467 | 462.23 | dot11EHTEMLMROptionImplemented is missing in Annex-C. Please add MIB variable. | As in comment. | Revised-Agree in principle with the comment. dot11EHTEMLMROptionImplemented MIB variable is added.TGbe editor to make the changes shown in 11-22/1835r0 under all headings that include CID 12467.  |
| 11811 | 821.59 | I can find only 5 MIB variables for EHT MAC...seems a bit on the lower end. Please ensure that all MIB variables used in MAC subclauses are defined in Annex C. | As in comment. | Revised- Agree in principle with the comment. Some missing MIB variables (such as dot11EHTEMLSROptionImplemented, dot11EHTEMLMROptionImplemented) are added. TGbe editor to make the changes shown in 11-22/1835r0 under all headings that include CID 11811.  |
| **TGbe Editor: Change Annex C as the following: (#10354, 12457, 10101, 12467, 11811)**Dot11EHTStationConfigEntry ::= SEQUENCE {dot11EHTPPEThresholdsRequired TruthValue,dot11TIDtoLinkMappingActivated TruthValue,dot11EHTEPCSPriorityAccessActivated TruthValue,dot11MSDTimerDuration Unsigned32,dot11MSDTXOPMAX Unsigned32,(#10198)dot11MultiLinkActivated TruthValue, (#13144)dot11MLDAssociationSAQueryMaximumTimeout, Unsigned32, dot11EHTEMLSROptionImplemented TruthValue,dot11EHTEMLSROptionActivated TruthValue,dot11EHTEMLMROptionImplemented TruthValue,dot11EHTEMLMROptionActivated TruthValue}(#13144)dot11MLDAssociationSAQueryMaximumTimeout OBJECT-TYPE SYNTAX Unsigned32 (1..4294967295)UNITS "TUs"MAX-ACCESS read-write STATUS current DESCRIPTION"This is a control variable.It is written by an external management entity.Changes take effect as soon as practical in the implementation.This attribute specifies the time period that an AP MLD can wait, from the scheduling of the first SA Query Request to allow association process to be started without starting additional SA Query procedure if a successful SA Query Response is not received."DEFVAL { 1000 }::= { dot11EHTStationConfigEntry 7 }dot11EHTEMLSROptionImplemented OBJECT-TYPE SYNTAX TruthValueMAX-ACCESS read-only STATUS current DESCRIPTION"This is a capability variable.Its value is determined by device capabilities.This attribute, when true, indicates that the station implementation iscapable of supporting EMLSR operation."DEFVAL { false }::= { dot11EHTStationConfigEntry 8 }dot11EHTEMLSROptionActivated OBJECT-TYPE SYNTAX TruthValueMAX-ACCESS read-write STATUS current DESCRIPTION"This is a control variable.It is written by an external management entity or the SME. Changes take effect as soon as practical in the implementation.This attribute, when true, indicates that the capability of the station to provide EMLSR operation is enabled. The capability is disabled, otherwise."DEFVAL { false }::= { dot11EHTStationConfigEntry 9 }dot11EHTEMLMROptionImplemented OBJECT-TYPE SYNTAX TruthValueMAX-ACCESS read-only STATUS current DESCRIPTION"This is a capability variable.Its value is determined by device capabilities.This attribute, when true, indicates that the station implementation iscapable of supporting EMLMR operation."DEFVAL { false }::= { dot11EHTStationConfigEntry 10 }dot11EHTEMLMROptionActivated OBJECT-TYPE SYNTAX TruthValueMAX-ACCESS read-write STATUS current DESCRIPTION"This is a control variable.It is written by an external management entity or the SME. Changes take effect as soon as practical in the implementation.This attribute, when true, indicates that the capability of the station to provide EMLMR operation is enabled. The capability is disabled, otherwise."DEFVAL { false }::= { dot11EHTStationConfigEntry 11 }-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*-- \* End of dot11EHTStationConfig TABLE-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***TGbe Editor: Replace dot11EHTEMLSROptionImplemented with dot11EHTEMLSROptionActivated throughout TGbe Draft 2.2. (#10354, 12457, 10101, 12467, 11811)****TGbe Editor: Replace dot11EHTEMLMROptionImplemented with dot11EHTEMLMROptionActivated throughout TGbe Draft 2.2. (#10354, 12457, 10101, 12467, 11811)****TGbe Editor to make the insert the following sentence right before the paragraph in P500L18 in Subclause 35.3.17 (Enhanced multi-link single radio operation) in TGbe D2.2:** A MLD that supports the enhanced multi-link single radio capability has dot11EHTEMLSROptionImplemented equal to ture. When a MLD whose dot11EHTEMLSROptionImplemented is equal to ture enables to provide the EMLSR operation, the MLD shall set dot11EHTEMLSROptionActivated to true. A non-AP MLD with dot11EHTEMLSROptionActivated equal to true shall have dot11EHTEMLMROptionActivated equal to false. **(#10354, 12457, 10101, 12467, 11811)****TGbe Editor to make the insert the following sentence right before the paragraph in P506L12 in Subclause 35.3.18 (Enhanced multi-link multi-radio operation) in TGbe D2.2:**A MLD that supports the enhanced multi-link multi-radio capability has dot11EHTEMLMROptionImplemented equal to ture. When a MLD whose dot11EHTEMLMROptionImplemented is equal to ture enables to provide the EMLMR operation, the MLD shall set dot11EHTEMLMROptionActivated to true. A non-AP MLD with dot11EHTEMLMROptionActivated equal to true shall have dot11EHTEMLMSOptionActivated equal to false. **(#10354, 12457, 10101, 12467, 11811)** |
| 11806 | 822.25 | If these features cannot be indicated in the EHT Capabilities then where are they indicated? | Please clarify where the support of such features is indicated. And remove the note in Line 29. | Revised-Agree in principle with the comment. TGbe editor removes the following NOTE in the Annex C“NOTE—Some EHT features may be indicated in an element other than the EHT Capabil-ities element.”  |
| 11807 | 822.42 | "dot11EHTTXOPSharingTFOptionImplemented" sometimes is set to 1, sometimes to true and sometimes to false (or 0). Change to true/false throughout the draft (note that in this paragraph it is fine, it is in other parts that it is incorrect). | As in comment. | Revised- Agree in principle with the comment. But it was fixed by the approved change from CID12882. From“An EHT STA with dot11EHTTXOPSharingTFOptionImplemented equal to 1”To “An EHT STA with dot11EHTTXOPSharingTFOptionImplemented equal to (#12882) true”TGbe editor needs no change for the resolution of this CID.  |
| 11808 | 823.06 | Ask ANA to replace <Last Assigned + 1> with 224. | As in comment. | Revised- TGbe editor requests ANA allocation for the MIB variable in the Annex C. |
| 12263 | 823.18 | This should be "a STA affiliated with a non-AP MLD". | Change "or non-AP MLD" to "or a STA affiliated with a non-AP MLD". | Revised- “This attribute, when true, indicates that the station or non-AP MLD implementation is capable of supporting WNM sleep mode when dot11WirelessManagementImplemented is equal to true”Adding “or non-AP MLD” is not needed since the WNM sleep mode is per-STA level operation. T The chanes on the Table 9-190 is wrong. Because the AP sets the WNM Sleep Mode field to 1 if it supports the WNM Sleep Mode. TGbe editor to make the changes shown in 11-22/1835r0 under all headings that include CID 12263.  |
| **TGbe Editor: Remove the following from Annex C:** *~~Change dot11WNMSleepModeImplemented as follows:~~*~~dot11WNMSleepModeImplemented OBJECT-TYPE SYNTAX TruthValue~~~~MAX-ACCESS read-only STATUS current DESCRIPTION~~~~"This is a capability variable.~~~~Its value is determined by device capabilities.~~~~This attribute, when true, indicates that the station or non-AP MLD implementation is capable of supporting WNM sleep mode when dot11WirelessManagementImplemented is equal to true."~~~~::= { dot11WirelessMgmtOptionsEntry 10 }~~ (#12263)**TGbe Editor: Remove Table 9-190:** **~~Table 9-190—Extended Capabilities field~~**

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| **~~Bit~~** | **~~Information~~** | **~~Notes~~** |
| ~~17~~ | ~~WNM Sleep Mode~~ | ~~The A non-AP STA or a (#12242)non-AP STA affiliated with a non-AP MLD sets the WNM Sleep Mode field to 1 when dot11WNMSleepModeActivated is true, and sets it to 0 otherwise. See 11.2.3.16 (WNM sleep mode).~~ (#12263) |

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| 11809 | 824.27 | Sometimes these MIB variables are written by ext management entity, SME or MAC...Check if they can be uniformly written by same entity | As in comment. | Rejected-MIB variable can be written by SME or MAC according to the usage scenario.Both are needed. For more information, please review <https://mentor.ieee.org/802.11/dcn/15/11-15-0355-13-0arc-mib-truthvalue-usage-patterns.docx> |
| 11810 | 824.30 | This is a control variable. Please add a capability MIB related variable and fix the language on this MIB description to be relatd to the activation process. | As in comment. | Rejected-If the capability MIB variable is needed, please provide the normatrive text to describe how to use such capability MIB variable. Otherwise, it is not necessary to add the capability MIB variable that is not used in the normative text in the spec. |
| 11821 | 824.49 | Missing e. Replace "th" with "the" | As in comment. | Accepted |
| 13522 | 841.61 | MIB attribute dot11EPCSPriorityAccessAuthorized seems to be exactly the "PolicyActive" style, as described in 11-15/0355r13. Change the name to end in "PolicyActive". | Change "dot11EPCSPriorityAccessAuthorized" to "dot11EPCSPriorityAccessPolicyActive", here and in all occurrences. | Rejected-In the baseline, PolicyActivated style is used once. (i.e., dot11LocalMACAddressPolicyActivated) The usage of dot11EPCSPriorityAccessAuthorized is closer to MIB variales defined in dot11Interworking TABLE, but they all use the same style. If the baseline is wrong, please submit the comment to REVme first. |