IEEE P802.11
Wireless LANs

|  |
| --- |
| 11be D2.0 CR for 35.3.1 |
| Date: 2022-08-09 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Po-Kai Huang | Intel |  |  |  |

Abstract

This submission proposes resolutions for the following CIDs:

10218, 10940, 11176, 11175, 11541, 11768, 13298, 13685, 10300, 10301,

10482, 10596, 11253, 11254, 13512, 11542, 11543, 11711, 11712, 11769,

13519, 12160, 13889, 11713, 12510, 11606, 11027, 10483, 10410, 13511,

13256, 11544, 10221

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Revision based on the discussion during adhoc. Highlight deferred CIDs.

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 TGbe D2.0 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe D2.0 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** | **Commenter** | **Clause** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 10218 | John Wullert | 35.3.1 | 404.54 | Is the intention of these two sentences to indicate that an AP device generally supports MLO while a non-AP device may or may not? The purpose and the meaning of the sentences are not clear | I believe the intention of these sentences is covered by normative sentences occuring later in the clause. In that case, replace the first two sentences with:An EHT AP shall have dot11MultiLinkActivated set to true and shall be affiliated with an AP MLD. The EHT AP and its affiliated AP MLD follow the rules defined in 35.3 (Multi-link operation).A non-AP EHT STA with dot11MultiLinkActivated set to true shall be affiliated with a non-AP MLD. The non-AP EHT STA and its affiliated non-AP MLD follow the rules defined in 35.3 (Multi-link operation).A non-AP EHT STA with dot11MultiLinkActivated set to false shall not be affiliated with any non-AP MLD.And delete the related sentences later in the clause (page 405, lines 23-32) | Accepted –  |
| 10940 | Graham Smith | 35.3.1 | 404.54 | "An EHT STA that is affiliated with an MLD supports multi-link operation (MLO)." What does "affiliated"mean? If the STA supports MLO then it must be/have an MLD. Is it a separate device, additional device? | Reword "An EHT STA that suports MLO is an MLD". OR make is clear what this "affiliation" is. Also at 405.1 | Revised – We have replaced the sentence with the sentence that uses dot11MultiLinkActivated. TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 10218 |
| 11176 | Joseph Levy | 35.3.1 | 404.54 | It should be clear that all EHT APs shall support MLO. | Replace: "An EHT AP supports MLO."With; "An EHT AP shall support MLO." | Revised – We have replaced the sentence with the sentence that uses dot11MultiLinkActivated. We also add the “shall” statement. TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11176 |
| 11175 | Joseph Levy | 35.3.1 | 404.54 | It should be clearly stated that an EHT STA that affiliates with an AP MLD shall support MLO. The current statement in the draft does not state that this is a "shall" requirement | Replace: "An EHT STA that is affiliated with an MLD supports multi-link operation (MLO)."With: "An EHT STA that affiliates with an MLD shall support multi-link operation (MLO)." | Revised – We have replaced the sentence with the sentence that uses dot11MultiLinkActivated. We also add the “shall” statement. TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11176 |
| 11541 | Xiaofei Wang | 35.3.1 | 404.54 | It is not clear how a EHT AP or STA can support MLO is MLO is defined to "authenticate, associate with an AP MLD"; these operations need to take place on the MLD level, which is beyond a STA or AP. | as in comment | Revised – We have replaced the sentence with the sentence that uses dot11MultiLinkActivated.We also note that MLO is defined to have operation involving MLD and also about sending frame through affiliated STA, MAC address setting of corresponding STA, etc. Hence, it is important to also specify that the affiliated STA(s) of an MLD follow the multi-link operation defined in 35.3.TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 10218 |
| 11768 | Osama Aboulmagd | 35.3.1 | 404.54 | The first line in clause 35.3.1 is not clear if it is a normative to informative text. | As in comment. Clarify | Revised – We have replaced the sentence with the sentence that uses dot11MultiLinkActivated.“shall” statement are also added to clarify.TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11176 and 10218 |
| 13298 | Binita Gupta | 35.3.1 | 404.54 | In "An EHT STA that is affiliated with an MLD supports multi-link operation (MLO). An EHT AP supports MLO.", clarify that the EHT STA refers to non-AP STA, since the AP requirement is captured in the second sentence. | Modify first sentence as follows: "An EHT non-AP STA that is affiliated with an MLD supports multi-link operation (MLO). An EHT AP supports MLO." | Revised – We have replaced the sentence with the sentence that uses dot11MultiLinkActivated.“shall” statement are also added to clarify.TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11176 and 10218 |
| 13685 | Yunbo Li | 35.3.1 | 404.54 | the combination of below two sentences alrealdy clearly get the result that an EHT AP suppports MLO. The sentence "An EHT AP supports MLO" looks redundant.1) P404L54: An EHT STA that is affiliated with an MLD supports multi-link operation (MLO).2) P405L23: An EHT AP shall have dot11MultiLinkActivated set to true and shall be affiliated with an AP MLD. | remove the sentence "An EHT AP supports MLO". | Revised – We have replaced the sentence with the sentence that uses dot11MultiLinkActivated.“shall” statement are also added to clarify.TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11176 and 10218 |
| 10300 | Michael Montemurro | 35.3.1 | 405.24 | This is really just a shall with a cross-reference. | Change"An EHT AP shall have dot11MultiLinkActivated set to true and shall be affiliated with an AP MLD. The EHT AP and its affiliated AP MLD follow the rules defined in 35.3 (Multi-link operation)."to"An EHT AP shall have dot11MultiLinkActivated set to true and shall be affiliated with an AP MLD and operate according to the requirements specified in 35.3 (Multi-link operation)." | Rejected – We note that the sentence with reference states that both affiliated AP and AP MLD follow the multi-link operation. If we reduce the description, we will not have the description that AP MLD follows the rules defined in 35.3 (Multi-link operation).*The EHT AP and its affiliated AP MLD follow the rules defined in* [*35.3 (Multi-link operation)*](#bookmark9) |
| 10301 | Michael Montemurro | 35.3.1 | 405.27 | This is really just a shall with a cross-reference. | Change"A non-AP EHT STA with dot11MultiLinkActivated set to true shall be affiliated with a non-AP MLD. The non-AP EHT STA and its affiliated non-AP MLD follow the rules defined in 35.3 (Multi-link operation)."to"A non-AP EHT STA with dot11MultiLinkActivated set to true shall be affiliated with a non-AP MLD and operate according to the requirements defined in 35.3 (Multi-link operation)." | Rejected – We note that the sentence with reference states that both affiliated non-AP STA and non-AP MLD follow the multi-link operation. If we reduce the description, we will not have the description that non-AP MLD follows the rules defined in 35.3 (Multi-link operation).*The non-AP EHT STA and its affiliated non-AP MLD follow the rules defined in 35.3 (Multi-link operation).* |
| 10482 | Eldad Perahia | 35.3.1 | 405.31 | "A non-AP EHT STA with dot11MultiLinkActivated set to false shall not be affiliated with any non-AP MLD." Since AP is required to be MLD, do we have a mechanism for non-MLD non-AP STA is able to associate with MLD AP | clarify. And if so, add references to the section where this shows up. | Rejected – Legacy non-AP STA can connect to any AP affiliated with an AP MLD per baseline. When AP affiliated with an AP MLD sees authentication/association request without multi-link element, the AP will proceed with response without multi-link element to go with the legacy flow. |
| 10596 | Abhishek Patil | 35.3.1 | 405.43 | It is well known that the Address 2 field is set to the TA field. Therefore, what is the value of the text following the 'and'? Delete it or clarify that since the non-AP STA's MAC address is the non-AP MLD's MLD MAC address (per line 35), the value carried Address 2 field of the (Re)Association Request frame is the non-AP MLD's MLD MAC address. | As in comment | Revised - The reference is simply provided to explain that TA is set to the MAC address of the non-AP STA while transmitting the frame per baseline. Agree in principle that we may not need to provide the reference for A1/A2/A3 and all the other fields in MAC header while we try to follow the legacy procedure. TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 10596 |
| 11253 | Sigurd Schelstraete | 35.3.1 | 405.25 | Wong use of the term "affiliated": APs are affiliated with an AP MLD. Here it appears to imply that the AP MLD is affiliated with the APs. | Change "and its affiliated AP MLD" to "and the AP MLD it is affiliated with" | Revised – Agree in principle with the commenter. TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11253 |
| 11254 | Sigurd Schelstraete | 35.3.1 | 405.28 | Wong use of the term "affiliated": non-APs are affiliated with an non-AP MLD. Here it appears to imply that the non-AP MLD is affiliated with the non-APs. | Change "and its affiliated non-AP MLD" to "and the non-AP MLD it is affiliated with" | Revised – Agree in principle with the commenter. TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11253 |
| 13512 | Amelia Andersdotter | 35.3.1 | 405.25 | In this sentence, the AP MLD is affiliated to the EHT AP rather than the other way around. I believe the intention is to have EHT AP affiliated with AP MLDs, though? | Change paragraph to "An EHT AP shall have dot11MultiLinkActivated set to true and shall be affiliated an AP MLD. The AP MLD and its affiliated EHT AP shall follow the rules defined in 35.3 (Multi-link operation)." | Revised – Agree in principle with the commenter. TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11253 |
| 11542 | Xiaofei Wang | 35.3.1 | 405.15 | How does AP MLD support MLO with just one affiliated AP? Particularly since It is stated that "EHT AP supports MLO". And when there is just one AP, why go through the overhead instead of conducting a regular association? | as in comment | Rejected –We explain that it is possible that AP MLD removes one affiliated AP and have only one affiliated AP left. In this case, it is not useful to define the complicated procedure to switch to legacy mode when one AP is removed. It makes more sense to stay with the MLD mode and reassociate if needed to add the link back. |
| 11543 | Xiaofei Wang | 35.3.1 | 405.27 | The cause and result is not quite clear. For a non-AP STA, is it because it is affiliated with a non-AP MLD so that it shall set dot11MultiLinkActivated to true, or the other way around? This sentence causes confusion on the causality. | as in comment | Rejected – We note that the sentence starts with “*A non-AP EHT STA with dot11MultiLinkActivated set to true*”. Hence, it is clear that “*dot11MultiLinkActivated set to true*” is the cause.*A non-AP EHT STA with dot11MultiLinkActivated set to true shall be affiliated with a non-AP MLD. Thenon-AP EHT STA and its affiliated non-AP MLD follow the rules defined in 35.3 (Multi-link operation).* |
| 11711 | Gaurav Patwardhan | 35.3.1 | 405.15 | Please clarify the sentence because only APs are allowed in an AP MLD. | Change sentence to "An AP MLD may operate only with one or more affiliated APs." | Rejected – The clarification is already part of the definition. The added “only” may be considered to be applied to “one or more”, which will create confusion on why “only” is added.*access point (AP) multi-link device (MLD): An MLD, where each station (STA) affiliated with the MLD**is an AP.* |
| 11712 | Gaurav Patwardhan | 35.3.1 | 405.17 | Please clarify the sentence because only non-AP STAs are allowed in a non-AP MLD. | Change sentence to "A non-AP MLD may operate only with one or more affiliated non-AP STAs." | Rejected – The clarification is already part of the definition. The added “only” may be considered to be applied to “one or more”, which will create confusion on why “only” is added.*non-access point (non-AP) multi-link device (MLD): An MLD, where each station (STA) affiliated with**the MLD is a non-AP STA.* |
| 11769 | Osama Aboulmagd | 35.3.1 | 404.58 | Need to add definitions for AP-MLD and non-AP MLD. | As in comment. Add definitions to clause 3.2 | Rejected – Definition of AP MLD and non-AP MLD is already added to clause 3.2.*access point (AP) multi-link device (MLD): An MLD, where each station (STA) affiliated with the MLDis an AP.**non-access point (non-AP) multi-link device (MLD): An MLD, where each station (STA) affiliated withthe MLD is a non-AP STA.* |
| 13519 | Mark Hamilton | 35.3.1 | 405.15 | "An AP MLD may operate with one of more affiliated APs." Why is this only a "may"? Isn't it a "shall" to operate with at least one affiliated AP? Same thing for the next paragraph, for non-AP MLDs. | Change "may" to "shall" at P405.15 and also at P405.17. | Revised – We change the description from may to shall. TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 13519 |
| 12160 | Michail Koundourakis | 35.3.1 | 405.19 | This note is confusing, as it is not clear why this example is mentioned.It implies that sometimes it is not allowed to operate from start with a singleaffiliated AP, is this the case? | Clarify if an MLD AP can start operating with a single affiliated AP. | Rejected – We note that the spec might not be able to define what “start” mean. The sentence allows you to operate with only one affiliated AP at any time for any reason. The added note is “an example”, which does not imply any normative restriction.  |
| 13889 | Ming Gan | 35.3.1 | 405.40 | Add "the response frame can't include the basic ML element" in this note | add the case for association response frame | Revised – We add the corresponding description and reference. TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 13889 |
| 11713 | Gaurav Patwardhan | 35.3.1 | 405.34 | The sentence does not parse properly. | Change it to the following: "The MLD MAC Address of a non-AP MLD that a non-AP EHT STA is affiliated with (when dot11MultiLinkActivated is set to true) shall be the same as the MAC Address of that non-AP STA with dot11MultiLinkActivated set to false. (See 35.3.3 (Multi-link device addressing))" | Revised – We clarify the setting by simply expand the description at the end for the dot11MultiLinkActivated.TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11713 |
| 12510 | Jeongki Kim | 35.2.2.1 | 405.34 | "The MAC address of a non-AP EHT STA with dot11MultiLinkActivated set to false shall be set to the MLD MAC address of the non-AP MLD that the non-AP EHT STA is affiliated with when dot11MultiLinkActivated is set to true." It seems like non-AP EHA STA should be able to set dot11MultiLinkActivated to true always. If no, the text should be clarified. | Change it to "The MAC address of a non-AP EHT STA with dot11MultiLinkActivated set to false shall be set to the MLD MAC address of a non-AP MLD if the non-AP EHT STA is affiliated with the non-AP ALD when dot11MultiLinkActivated is set to true." | Revised – We clarify the setting by simply expand the description at the end for the dot11MultiLinkActivated.We note that the sentence does not enforce anything if the non-AP EHT STA never sets dot11MultiLinkActivated set to true. (ex. Only connect to legacy AP)TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11713 |
| 11606 | Lei Wang | 35.3.1 | 405.34 | The sentence in line 34 page 405 uses "shall", which triggers a question, what happens if a non-AP EHT STA never has its dot11MultiLinkActivated set to true? | Please clarify what happens if a non-AP EHT STA never has its dot11MultiLinkActivated set to true. | Revised – We clarify the setting by simply expand the description at the end for the dot11MultiLinkActivated.We note that the sentence does not enforce anything if the non-AP EHT STA never sets dot11MultiLinkActivated set to true. (ex. Only connect to legacy AP)TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11713 |
| 11027 | Hanqing Lou | 35.3.1 | 405.34 | Base on this paragraph, a non-AP STA may change its MAC address when its dot11MultiLinkActivated is set from true to false. Detailed explanation may be needed here since MAC address changing may require some frame exchanges between AP and STA. | Please clarify | Rejected – We note that changing MAC address in this context does not need further frame exchange. When non-AP STA is not affiliated with a non-AP MLD anymore, the non-AP STA basically disconnected from the associated AP MLD already, and set the MAC address to the desired value internally without frame exchange.  |
| 10483 | Eldad Perahia | 35.3.1 | 405.34 | "The MAC address of a non-AP EHT STA with dot11MultiLinkActivated set to false shall be set to the MLD MAC address of the non-AP MLD that the non-AP EHT STA is affiliated with when dot11MultiLinkActivated is set to true." | something is wrong with the grammar | Revised – We clarify the setting by simply expand the description at the end for the dot11MultiLinkActivated.TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11713 |
| 10410 | yan li | 35.3.1 | 405.34 | it is confusing whether a non-AP EHT STA with dot11MultiLinkActivated set to false shall be affiliated with non-AP MLD or not.this paragraph indicates it shall be ,while the prior one indicates it shall not be.Please clarify it | please clarify it | Revised – We note that a non-AP EHT STA with dot11MultiLinkActivated set to false does not need to be affiliated with a non-AP MLD.We clarify the setting by simply expand the description at the end for the dot11MultiLinkActivated.TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11713 |
| 13511 | Amelia Andersdotter | 35.3.1 | 405.34 | This wording seems to imply that a non-AP EHT STA which is not affiliated with any non-AP MLD (by the wording on lines 31-32 same page) should nevertheless keep the MAC address of the non-AP MLD? | Change paragraph to "The MAC address of a non-AP EHT STA with dot11MultiLinkActivated set to false may be set according to the regular rules for setting MAC addresses for non-AP STA." | Rejected – We explain the reasoning behind the sentence. The key point is that a non-AP EHT STA may roam in an ESS, and it is possible that not all the AP in the ESS is an EHT AP. When a non-AP EHT STA needs to roam among EHT AP and non-EHT AP in an ESS, it is then critical for the non-AP EHT STA to use the MLD MAC address to connect to non-EHT AP so roaming can be possible.  |
| 13256 | Binita Gupta | 35.3.1 | 405.34 | The req "The MAC address of a non-AP EHT STA with dot11MultiLinkActivated set to false shall be set to the MLDMAC address of the non-AP MLD that the non-AP EHT STA is affiliated with whendot11MultiLinkActivated is set to true." will require to reassign non-AP STA MAC address after the dot11MultiLinkActivated is set to false if the STA MAC address was set different than the MLD MAC address, as is allowed in the MLD architecture. Clarify why we need to enforce this requirement, if at all needed. Also if needed, clarify that this only applies to non-AP STA which had dot11MultiLinkActivated was set to true. | As in comment. | Revised - We explain the reasoning behind the sentence. The key point is that a non-AP EHT STA may roam in an ESS, and it is possible that not all the AP in the ESS is an EHT AP. When a non-AP EHT STA needs to roam among EHT AP and non-EHT AP in an ESS, it is then critical for the non-AP EHT STA to use the MLD MAC address to connect to non-EHT AP so roaming can be possible. We clarify the setting by simply expand the description at the end for the dot11MultiLinkActivated.We note that the sentence does not enforce anything if the non-AP EHT STA never sets dot11MultiLinkActivated set to true. (ex. Only connect to legacy AP)TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11713 |
| 11544 | Xiaofei Wang | 35.3.1 | 405.34 | If a non-AP EHT STA with dot11MultiLinkActivated once set to true, but is no longer affiliated with the MLD, it does not seem to make sense to keep using the old MLD MAC address. | as in comment | Rejected – We explain the reasoning behind the sentence. The key point is that a non-AP EHT STA may roam in an ESS, and it is possible that not all the AP in the ESS is an EHT AP. When a non-AP EHT STA needs to roam among EHT AP and non-EHT AP in an ESS, it is then critical for the non-AP EHT STA to use the MLD MAC address to connect to non-EHT AP so roaming can be possible.  |
| 10221 | John Wullert | 35.3.1 | 405.34 | Requiiring that a non-AP device use the MAC address of an MLD even if it is not using MLO seems to imply that every non-AP device must implement support for MLO. But the prior sentence makes it clear that a non-AP EHT STA can exist without a non-AP MLD. If non-AP EHT STAs can exist without an MLD, it seems wrong to require that they have MLD-related concepts imposed on them. Also, this requirement seems to be at odds with Note 1 in Clause 35.3.3, which says they MLD MAC address might be different than that of any of the affiliated STAs | Address the issue of placing MLD requirements on stand-alone EHT STAs. One option is to define a second MIB variable, dot11MultiLinkImplemented and revise this text to address non-AP EHT STAs that have dot11MultiLinkActivated set to false and dot11MultiLinkImplemented set to true.Address the discrpency with Claus 35.3.3. | Rejected – We explain the reasoning behind the sentence. The key point is that a non-AP EHT STA may roam in an ESS, and it is possible that not all the AP in the ESS is an EHT AP. When a non-AP EHT STA needs to roam among EHT AP and non-EHT AP in an ESS, it is then critical for the non-AP EHT STA to use the MLD MAC address to connect to non-EHT AP so roaming can be possible. This sentence does not contradict with the sentence about MAC address of affiliated STA. Assume that non-AP MLD connects to AP MLD with two links (non-AP STA 1 and non-AP STA2) and say non-AP MLD has MLD MAC address 0, non-AP STA 1 has MAC address 1 and non-AP STA 2 has MAC address 2. When roaming to non-EHT AP using non-AP STA 1, non-AP STA can set the MAC address to MLD MAC address 0. We note that it is allowed for non-AP STA to change MAC address among different connections.  We clarify the setting by simply expand the description at the end for the dot11MultiLinkActivated.We note that the sentence does not enforce anything if the non-AP EHT STA never sets dot11MultiLinkActivated set to true. (ex. Only connect to legacy AP)TGbe editor to make the changes shown in 11-22/1316r1 under all headings that include CID 11713 |

**Discussion: None**

***TGbe editor: Change 35.3.1 General as follows (track change on):***

**35.3 Multi-link operation**

**35.3.1 General**

 (#10218)

An EHT AP shall set dot11MultiLinkActivated to true and shall be affiliated with an AP MLD. An AP MLD and all of its affiliated AP(s) (#11253) shall(#11176) follow the rules defined in [35.3 (Multi-link operation)](#bookmark9).(#10218)

A non-AP EHT STA with dot11MultiLinkActivated equal to true shall be affiliated with a non-AP MLD. A non-AP MLD and all of its affiliated non-AP STA(s) (#11253) shall(#11176) follow the rules defined in [35.3 (Multi-link operation)](#bookmark9). (#10218)

A non-AP EHT STA with dot11MultiLinkActivated equal to false shall not be affiliated with any non-AP MLD. (#10218)

MLO enables a non-AP MLD to discover, authenticate, associate, and set up multiple links with an AP MLD. Each link enables channel access and frame exchanges between the non-AP MLD and the AP MLD based on the supported capabilities exchanged during association. (#10298)A non-AP MLD may establish a single link TDLS direct link with another non-AP MLD or a non-AP STA as defined in [35.3.21 (TDLS](#bookmark77) [procedure in multi-link operation)](#bookmark77).

(#10219)Each STA affiliated with an MLD may select and manage its capabilities and operating parameters independently from the other STA(s) affiliated with the same MLD, unless specified otherwise.

NOTE 1—For example, (#10481)each AP affiliated with an AP MLD can independently select, disable, and update its BSS color (see 26.17.3 (BSS color)) for its BSS

NOTE 2—Examples of operating parameters that are selected at the MLD level (i.e., not independently selected by affiliated STAs) are the listen interval (see [35.3.12.6 (Operation for MLD listen interval)](#bookmark55)) and the WNM sleep interval (see 11.2.3.1 (General)).

An AP MLD or an NSTR mobile AP MLD shall correct the clock drift to be within ±30 µs between TSF timers of any two APs affiliated with the AP MLD or the NSTR mobile AP MLD.

An AP MLD shall operate with one or more affiliated APs. (#13519)

A non-AP MLD shall operate with one or more affiliated non-AP STAs. (#13519)

NOTE 3—An AP MLD might operate with a single affiliated AP, for example, after removing some of its affiliated APs. Similarly, a non-AP MLD might operate with a single affiliated non-AP STA, for example, after the associated AP MLD has removed some of its affiliated APs. See [35.3.6.2.2 (Removing affiliated APs)](#bookmark33).

 (#10218) (#10218) (#10218)

The MAC address of a non-AP EHT STA with dot11MultiLinkActivated set to false shall be set to the MLD MAC address of the non-AP MLD that the non-AP EHT STA is affiliated with when the non-AP EHT STA has dot11MultiLinkActivated set to true.(#11713)

NOTE 4 —A non-AP EHT STA might set dot11MultiLinkActivated to true or false.

NOTE 5—The (Re)Association Request frame sent by a non-AP EHT STA with dot11MultiLinkActivated set to false does not include the Basic Multi-Link element (see Table 9-62 (Association Request frame body(#10532)) and Table 9- 64 (Reassociation Request frame body(#10532))).(#10596) The (Re)Association Response frame sent in response to a (Re)Association Request frame without including the Basic Multi-Link element does not include the Basic Multi-Link element (see Table 9-63 (Association Response frame body) and Table 9- 65 (Reassociation Response frame body)).(#13889)

(#11719)All APs affiliated with the same AP MLD are members of the same ESS and are connected to the same DS. As a result, all APs affiliated with the same AP MLD shall advertise the same SSID.