IEEE P802.11
Wireless LANs

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| LB 266 - CR for ML Reconfiguration clause 35.3.6  |
| Date: August 24, 2022 |
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 Abstract

This submission proposes resolutions for following 36 CIDs received for TGbe LB266:

10237, 13325, 14065, 11081, 12618, 12619, 13276, 13678, 13679, 13680,

14016, 14066

10371, 10718, 11040, 11041, 11429, 11565, 11569, 11636, 12081, 12083,

12084, 12219, 12620, 12621, 12996, 12997, 12998, 13278, 13279, 13280,

13681, 14018, 14019, 14020

**Revisions:**

* Rev 0: Initial version of the document.
* Rev 1:
	+ Deferred CIDs 10717, 11658 and 13066 per offline discussion. Updates to resolution for CIDs 12618, 13678,11569, 11429, 14020 per offline discussion. Updates to resolution description in the Table for some CIDs
* Rev 2 – deferred CID 11636

***TGbe editor: The baseline for this document is 11be D2.0.***

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 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.***

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| ***CID*** | ***Commenter*** | ***Clause*** | ***Page*** | ***Comment*** | ***Proposed Change*** | ***Resolution*** |
| 10237 | John Wullert | 35.3.6.2.1 | 425.52 | "A new affiliated APs shall be announced" has a plural/singular disconnect | Change to "Any new affiliated APs..." | **Revised**The text is revised to fix grammar.**TGbe editor, please make the changes tagged by CID #10237 in 22/1487r3.** |
| 13325 | Muhammad Kumail Haider | ï»¿35.3.6.2.1 | 425.52 | "ï»¿ï»¿A new affiliated APs shall be..." --> "ï»¿A new affiliated AP shall be..." | as in comment | RevisedSame resolution as for 10237.**TGbe editor, please make the changes tagged by CID #10237 in 22/1487r3.** |
| 14065 | Pooya Monajemi | 35.3.6.2.1 | 425.53 | Grammar: "A new affiliated APs" | Remove "A" at the beginning of sentence | Revised Same resolution as for 10237.**TGbe editor, please make the changes tagged by CID #10237 in 22/1487r3.** |
| 11081 | Po-Kai Huang | 35.3.6.1 | 425.43 | "reconfiguration" has been used in the baseline. Having this short version of feature name may create confusing when merged with revme. Suggest to revise the following sentence. "Multi-link reconfiguration (ML reconfiguration, or reconfiguration for short) refers to" to "Multi-link (ML) reconfiguration refers to" | Change the sentence to "Multi-link (ML) reconfiguration refers to" | Accepted**TGbe editor, please make the changes tagged by CID #11081 in 22/1487r3.** |
| 12618 | Arik Klein | 35.3.6.2.1 | 425.52 | When a new affiliated AP is added, a new Common Info is added to the Basic Multi-Link element included in the Beacon or Probe Response frames transmitted by the new affiliated AP or by another Transmitted BSSID within the multiple BSSID set to which the new affiliated AP is pertained. Please add it to the current paragraph. | 1. Modify the current sentence as follows:” A new affiliated Aps shall be announced through the Basic Multi-Link element \*transmitted by other Aps affiliated with the same AP MLD or by the new affiliated AP\*(by changing the Maximum Number Of Simultaneous Links field of the MLD Capabilities and Operations field of the Common field)”2. Add the following sentence: “In addition, a new Basic Link element is added in the Beacon and Probe Response transmitted by the new affiliated AP or by another transmitted BSSID within the multiple BSSID set to which the new affiliated AP is pertained”. | RevisedText is revised to add clarification that the new affiliated AP is announced by other affiliated APs which are not in a multiple BSSID set or which correspond to a transmitted BSSID in a multiple BSSID set to which the added AP belongs. For the new affiliated AP text is added to refer to 35.3.4.4 (Multi-Link element usage rules in the context of discovery) for including a Basic ML element in the Beacon and Probe Response.**TGbe editor, please make the changes tagged by CID #12618 in 22/1487r3.**  |
| 12619 | Arik Klein | 35.3.6.2.1 | 425.54 | Replace the "field" with "subfield" in the following sentence: "by changing the Maximum Number Of Simultaneous Links field of the MLD Capabilities and Operations field" | The sentence should be revised as follows: "by changing the Maximum Number Of Simultaneous Links subfield of the MLD Capabilities and Operations subfield" | Accepted.Text is revised as per suggestion.**TGbe editor, please make the changes tagged by CID #12619 in 22/1487r3.** |
| 13276 | Binita Gupta | 35.3.6.2.1 | 425.52 | Need to provide specific requirements for the AP/AP MLD when a new affiliated Aps are added e.g. how are relevant fields updated in the Basic ML element – only Maximum Number Of Simultaneous Links field is captured in current text. Are there other fields which are updated in the Basic ML element? E.g. including per-STA Profile subelement for the new AP in the Basic ML element. Similarly capture specific details on updates to Reduced Neighbor Report element when affiliated Aps are added. Current text lacks detailed description. | As in comment | RevisedFor the first point, no Per-STA Profile subelement is included in the Basic ML element for the new AP in Beacon and Probe Response (which is non-ML Probe Response), so no change needed. For the RNR, added text to specify that TBTT Information field includes MLD Parameters subfield.**TGbe editor, please make the changes tagged by CID #13276 in 22/1487r3.** |
| 13678 | James Yee | 35.3.6.2.1 | 425.53 | The meaning of "new affiliated AP" is unclear. Does it mean that the added AP must be 'new' in the sense that no AP with its configuraton is allowed to have been affiliated with the AP MLD at any time in the past? This seems unnecessary restrictive. | Instead of "Adding new affiliated APs", this subcluse should be "Adding affiliated APs" and make similar changes in the subclause. | RevisedAgree that the ML Reconfiguration feature for adding APs to an MLD is intended to support both adding an AP which was never affiliated with the AP MLD as well as an AP which might have been affiliated with the AP MLD in past, got removed and now getting added again. The text is updated as per suggestion to remove ‘new’ and replace with ‘added’. **TGbe editor, please make the changes tagged by CID #13678 in 22/1487r3.** |
| 13679 | James Yee | 35.3.6.2.1 | 425.53 | Given that the procedure of adding an affiliated AP is not instantaneous, if is not correct to say that "An AP MLD may add new affiliated APs (at) anytime". Further, if "Removing affiliated APs" is not described as being done at 'anytime', why describe Adding using 'anytime'?" | Remove 'anytime' from the description of the Adding affiliated APs procedure. | Revised.Text is revised based on the suggestion. **TGbe editor, please make the changes tagged by CID #13679 in 22/1487r3.** |
| 13680 | James Yee | 35.3.6.2.1 | 425.58 | The term ‘new co-hosted AP’ is not well defined and what does it have to do with this feature? | Please explain. | RevisedThe co-hosted AP is referring to the new affiliated AP. The NOTE text is revised to clarify that the co-hosted AP as well as the nontransmitted BSSID is referring to the new affiliated AP.**TGbe editor, please make the changes tagged by CID #13680 in 22/1487r3.** |
| 14016 | kaiying Lu | 35.3.6.2.1 | 425.50 | The removed affiliated APs may be easily added back. However, adding a new affiliated AP may not be easy. The subclause should limit to add the removed affiliated APs back only. | As in comment. | RejectedThe scope of ‘Adding new affiliated APs’ feature is to be able to add an AP to an AP MLD. There can be operational use cases where the added AP is a new AP (and not an already removed AP). Hence this feature should not restrict that the new AP should only be an AP which was removed earlier. |
| 14066 | Pooya Monajemi | 35.3.6.2.1 | 425.54 | Addition of a new AP in the Basic Multi-Link element will also include other information | Either add "including" before "by changing the Maximum...", or add the rest of the information added to the Basic Multi-Link element, or remove the parentheses' contents altogether. Also suggest adding the word "updating" after "shall be announced through" | RejectedThe text specifies the key information which needs to be updated in the Basic ML element when an affiliated AP is added. Comment fails to identify what other information should be included in the Basic Multi-Link element when an AP is added. For the second point, the text already identifies that aspect with “by changing…”. Hence, no change needed.   |

**35.3.6.1 General**

***TGbe editor: Please modify the 1st paragraph in this subclause as shown below:***

*Multi-link (ML) reconfiguration*  (#11081) refers to a set of procedures
through which an AP MLD can add one or more affiliated APs to the AP MLD, or remove one or more
affiliated Aps from the AP MLD.

35.3.6.2.1 Adding (#13678)affiliated APs

***TGbe editor: Please modify the 1st paragraph in this subclause (An AP MLD may add …) as shown below:***

An AP MLD may add one or more (#13678)affiliated APs to the AP MLD (#13679). Each added (13678)affiliated AP (#10237) shall be announced through the Basic Multi-Link element (by changing the Maximum Number Of Simultaneous Links subfield (#12619) of the MLD Capabilities and Operations subfield (#12619)), and through the Reduced Neighbor Report element (by including a TBTT Information field with MLD Parameters subfield (#13276) for the added (#13678) AP), in the Beacon and Probe Response frames transmitted by other APs affiliated with the same AP MLD, which are not in a multiple BSSID set or which correspond to a transmitted BSSID in a multiple BSSID set to which the added AP belongs(#12618). The added affiliated AP shall follow the rules defined in 35.3.4.4 (Multi-Link element usage rules in the context of discovery) for including a Basic Multi-Link element in a Beacon frame or a Probe Response frame that it transmits (#12618)

***TGbe editor: Please modify the NOTE in this subclause as shown below:***

NOTE—The MAC address of any added (#13678) affiliated AP which is a (#13680) co-hosted AP is assumed to be within the address space defined by the value of the Max Co-Hosted BSSID Indicator field (see 9.4.2.249 (HE Operation element) and 26.17.7 (Co-hosted BSSID set)). Similarly, the MAC address of any added(#13678) affiliated AP which is a (#13680) nontransmitted BSSID is assumed to be within the address space defined by the value of the MaxBSSID Indicator (see 9.4.2.45 (Multiple BSSID element) and 11.1.3.8 (Multiple BSSID procedure)).

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| ***CID*** | ***Commenter*** | ***Clause*** | ***Page*** | ***Comment*** | ***Proposed Change*** | ***Resolution*** |
| 10371 | Tomoko Adachi | 35.3.6.2.2 | 426.47 | If a non-AP MLD only has one setup link and if that link is removed by the AP MLD, then the affiliated AP should also transmit a Disassociation frame to the STA that is affiliated with the non-AP MLD. | Change "... to all associated STAs that are not affiliated with a non-AP MLD." to "... to all associated STAs that are not affiliated with a non-AP MLD and all associated STAs that are affiliated with a non-AP MLD and have single setup link." | RevisedAgree that AP MLD shall disassociate the non-AP MLDs which have only a single link setup with the removed AP after the affiliated AP is removed. Text is added to specify this behavior. **TGbe editor, please make the changes tagged by CID #10371 in 22/1487r3.** |
| 11040 | Po-Kai Huang | 35.3.6.2.2 | 426.54 | About "At the TBTT indicated by the value of the Delete Timer subfield in transmitted Reconfiguration Multi-Link elements, an associated non-AP MLD shall consider the link corresponding to the removed AP nonexistent, and the SME of the affiliated STA associated with the removed affiliated AP shall delete any information maintained for that link." For non-AP MLD, it is possible that the only setup link is being removed. Add sentence to clarify that if there are no remaining setup links, then AP MLD just disassociate non-AP MLD. | Add "At the TBTT indicated by the value of the Delete Timer subfield in transmitted Reconfiguration Multi-Link elements, for an associated non-AP MLD, if the removed link is the only setup link, then AP MLD shall disassociate the non-AP MLD." | RevisedAgree in principle. Text is revised as per suggestion. Also added a requirement for the AP MLD to remove the affiliated AP at the TBTT indicated by the Delete Timer, which is missing in the current text.**TGbe editor, please make the changes tagged by CID #11040 in 22/1487r3.** |
| 11041 | Po-Kai Huang | 35.3.6.2.2 | 426.54 | About “At the TBTT indicated by the value of the Delete Timer subfield in transmitted Reconfiguration Multi-Link elements, an associated non-AP MLD shall consider the link corresponding to the removed AP nonexistent, and the SME of the affiliated STA associated with the removed affiliated AP shall delete any information maintained for that link.” For non-AP MLD, it is possible that the only setup link is being removed. Add sentence to clarify that if there are no remaining setup links, then just disassociate from AP MLD. | Add “After a non-AP MLD deletes any information maintained for the removed link, if there is no more setup links, then the non-AP MLD shall disassociate the AP MLD.” At the end of the paragraph. | Revised Agree in principle. Text is revised as per suggestion. **TGbe editor, please make the changes tagged by CID #11041 in 22/1487r3.** |
| 11565 | Xiaofei Wang | 35.3.6.2.2. | 426.18 | this sentence seems to be missing some parts | complete the sentence | RevisedThe sentence is revised to make it read well. **TGbe editor, please make the changes tagged by CID #11565 in 22/1487r3.** |
| 12083 | Gabor Bajko | 35.3.6.2.2 | 426.18 | Replace "Additionally, in order to terminate the BSS a to-be-removed affiliated AP belongs to (see 6.3.12 (Stop)) ..." with "Before the affiliated AP is removed ..." |   | RevisedThe SME behavior captured is specifically for terminating the BSS associated with the removed AP. hence keeping the text which specifies ‘to terminate the BSS’. The text is revised to make it read better.**TGbe editor, please make the changes tagged by CID #11565 in 22/1487r3.** |
| 12081 | Gabor Bajko | 35.3.6.2.2 | 426.49 | "to transmit Disassociation frames to all associated STAs that are not affiliated with a non-AP MLD." Defeats the purpose. The AP wants to disassociate only the STAs which are associated with the removed AP. | Change the sentence to "to transmit Disassociation frames to STAs that are associated with the to-be-removed affiliated AP (and are not affiliated with the remaining Aps)" | Revised.Revised text to clarify that the text is for all STAs not affiliated with a non-AP MLD and which are associated with the BSS of the removed AP as per suggestion. **TGbe editor, please make the changes tagged by CID #12081 in 22/1487r3.** |
| 12084 | Gabor Bajko | 35.3.6.2.2 | 426.56 | Text says: "the SME of the affiliated STA associated with the removed affiliated AP shall delete any information maintained for that link."Is the affiliated AP removal a temporary or permanent action? If it is a temporary action, and the affiliated AP may come back, then the STAs would need to reassociate to re-establish the link with that AP, if the quoted text is followed by the STAs. Which may defeat the purpose of the procedure. If the STAs retain the information maintained for that link, then when the AP comes back, the link can be used again. | If AP removal is temporary, then it would make sense to reuse the established link after the AP comes back. The STAs would just need to retain the information pertaining for that link, but an indication for how long should they pertain it (when will the AP come back) would probably be needed.Potential enhancement could be to define an affiliated AP removal time and when the AP removal is not permanent, then advertise this removal time also. And delete the quoted sentence. | RejectedThe AP removal is meant to remove the AP from the AP MLD including removing all the related state information on the AP MLD and non-AP MLD. For a temporary AP removal, AP link disable and enable feature is defined in D2.1. |
| 12620 | Arik Klein | 35.3.6.2.2 | 426.18 | The procedure for terminating the BSS to which the to-be-removed affiliated AP belongs, includes Disassociation frame transmission and BSS termination activated by the SME (see 6.3.12). The timing for Disassociation frame transmission and BSS termination are defined using the values of the Disassociation timer and BSS Termination Duration that are included in the BSS Transition Management Request frame.What is the timing of Disassociation frame transmission and BSS termination in case that no association non-MLD STA support the BTM feature (so no BSS Transition Management Request frame is transmitted)? | Need to add rules for the timing of Disassociation frame transmission and BSS termination in case that no association non-MLD STA support the BTM feature (so no BSS Transition Management Request frame is transmitted). | RejectedThe Disassociation frame transmission is based on Disassociation Timer field which is defined based on Delete Time and not BSS Termination duration. See spec text below. No new rules needed. “The Disassociation Timer field value shall point to a TBTT at or later than the TBTT pointed to by the value of the Delete Timer field of the Reconfiguration Multi-Link element in transmitted beacons.” |
| 12621 | Arik Klein | 35.3.6.2.2 | 426.48 | Correct the section number referenced in the following sentence:"...it shall follow the procedure in 11.3.6.8 (AP, AP MLD, or PCP disassociation initiation procedure) to transmit Disassociation frames.." | Replace 11.3.6.8 with 11.3.5.8 (based on REVme D1.0) | RejectedThe reference11.3.6.8 (AP, AP MLD, or PCP disassociation initiation procedure) is correct based on 11be D2.0 spec. |
| 12996 | Chunyu Hu | 35.3.6.2.2 | 426.18 | Does removing an AP always terminate the BSS? If not, then change "in order to terminate" to "if to terminate". May also want to put a note that, if none of associated STAs on the operating link of this to-be-removed AP, then no need to perform this step. | As in comment | RevisedRemoving an AP also terminates the BSS associated with that AP. Added a NOTE per suggestion to indicate that the indicated procedure is not performed if there are no associated STAs that are not affiliated with a non-AP MLD on the BSS of the removed AP.**TGbe editor, please make the changes tagged by CID #12996 in 22/1487r3.** |
| 13278 | Binita Gupta | 35.3.6.2.2 | 426.31 | If the Disassociation Timer field value points to a TBTT later than the TBTT pointed to by the value of the Delete Timer field of the Reconfiguration Multi-Link element in transmitted beacons, then how will the affiliated AP send the Disassociation frame, because the AP would have been removed at the TBTT pointed by the Delete Timer. Address this inconsistency. | As in comment | RevisedAdded a NOTE.to clarify that the AP removal from the AP MLD and the termination of BSS corresponding to the removed AP are performed as separate procedures. **TGbe editor, please make the changes tagged by CID #13278 in 22/1487r3.** |
| 13279 | Binita Gupta | 35.3.6.2.2 | 426.18 | Clarify if the procedures indicated by 1) , 2) and 3) apply for only non-AP STA not affiliated with a non-AP MLD or it applies for non-AP STA affiliated with a non-AP MLD as well. | As in comment | RevisedAdded text to clarify that the procedures specified for terminating a BSS is only applicable to legacy non-AP STAs which are not affiliated with a non-AP MLD. **TGbe editor, please make the changes tagged by CID #13279 in 22/1487r3** |
| 11569 | Xiaofei Wang | 35.3.6.2.2 | 426.62 | In the example, given in Note on P427L62, if STA2 is no longer affiliated the non-AP MLD, then would STA2 adapt the MLD MAC address for the non-AP MLD according to the rules on P405L34? | As in comment | RevisedNOTE is simplified to clarify that when an affiliated AP is removed, the link between the removed AP and the corresponding non-AP STA affiliated with the non-AP MLD is removed. The non-AP STA which does not have any setup link may or may not remain affiliated with the non-AP MLD based on the value of *dot11MultiLinkActivated* MIB, setting of which is independent of the link removal.**TGbe editor, please make the changes tagged by CID #11569 in 22/1487r3.**  |
| 12997 | Chunyu Hu | 35.3.6.2.2 | 416.59 | The "with the AP MLD" in "An AP MLD with two Aps affiliated with the AP MLD" is redundant. | Remove the redundant phrase. | RevisedText is revised per suggestion.**TGbe editor, please make the changes tagged by CID #12997 in 22/1487r3.** |
| 12998 | Chunyu Hu | 35.3.6.2.2 | 426.60 | It’s the removal procedure rather than the AP MLD that results in ... | Change the sentence "the AP MLD results in ..." to "after the remove procedure is complete, there is only one AP left being affiliated with the AP MLD" | Revised Text is revised to simplify.**TGbe editor, please make the changes tagged by CID #12998 in 22/1487r3.** |
| 13681 | James Yee | 35.3.6.2.2 | 426.59 | The Note can be more succintly stated as: "An AP MLD with two affiliated APs that removes one of its affiliated APs will have only one affiliated AP after the removal. Further, a non-AP MLD that is associated with the AP MLD prior to the removal will have only one affiliated non-AP STA after the affiliated AP of the associated AP MLD is removed.", but I also wonder what is the point of including such a note. What is the purpose? | Simplify the note or remove it altogether. | RevisedRevised NOTE text to simplify it.**TGbe editor, please make the changes tagged by CID #13681 in 22/1487r3.** |
| 10718 | Xiandong Dong | 35.3.6.2.2 | 427.01 | what does the word "capabilities" mean, please clarify | as in the comment | RevisedThe text is revised to clarify and a reference is added for capabilities.**TGbe editor, please make the changes tagged by CID #10718 in 22/1487r3.** |
| 11636 | Morteza Mehrnoush | 35.3.6.2.2 | 427.01 | In addition to STR and NSTR link pair relationship, the EMLSR and EMLMR non-AP MLD behavior upon AP removal should be defined. In AP MLD with two affiliated APs, if one affiliated AP is removed, the non-AP MLD can only do frame exchange over one link so no EML(SR/MR) operation is needed at AP and non-AP MLD. Please add clarification in the text. | as in comment | TBD |
| 12219 | Stephen McCann | 35.3.6.2.2 | 427.01 | An MLD should not be constrained to have a STR link pair. It should be able to have as many STR links as it wishes. Therefore this sentence only applies to NSTR link pairs. | Change the cited sentence to “If an AP affiliated with an AP MLD is removed, any NSTR requirements and capabilities that correspond to a link pair that includes the link corresponding to the removed AP shall no longer apply.” | RejectedThe text is only referring to STR requirements and capabilities involving the removed link. The MLD can certainly have other STR link pairs. |
| 13280 | Binita Gupta | 35.3.6.2.2 | 427.01 | Clarify specifically that eMLSR and eMLMR capabilities no longer apply if the removed AP is part of an EMLSR or eMLMR link pairs. | As in comment | RevisedAgree in principle. Added text to specify that the EMLSR and EMLMR requirements and capabilities no longer apply for the removed link.**TGbe editor, please make the changes tagged by CID #13280 in 22/1487r3.** |
| 14018 | kaiying Lu | 35.3.6.2.2 | 427.01 | If an AP affiliated with an AP MLD is removed, EMLSR requirements and capabilities corresponding to the removed AP shall no longer apply. | As in comment. | RevisedAdded text to specify that EMLSR requirements and capabilities no longer apply for the removed link.**TGbe editor, please make the changes tagged by CID #14018 in 22/1487r3.** |
| 14019 | kaiying Lu | 35.3.6.2.1 | 425.55 | After removing an affiliated AP, it would be beneficial to give the AP MLD a choice to keep advertising the removed AP to be added back in the future. | Clarify it. | RejectedSuch use cases where an AP is temporarily removed can be handled by the AP disable/enable feature added in D2.1. No change needed.  |
| 11429 | Gaurang Naik | 35.3.6.2.2 | 426.07 | When an AP is removed, other Aps of the AP MLD must stop advertising the removed AP in their respective RNR elements in Beacon and Probe Response frames. | Add a note saying “Once an AP affiliated with an AP MLD is removed, the TBTT Information field corresponding to that AP is not included by the other Aps affiliated with the same AP MLD or by the transmitted BSSIDs in the same multiple BSSID set as the APs affiliated with the same AP MLD”. | RevisedAgree in principle. Text is added as per suggestion.**TGbe editor, please make the changes tagged by CID #11429 in 22/1487r3.** |
| 14020 | kaiying Lu | 35.3.6.2.2 | 426.01 | After removing an affiliated AP, clarify whether the TBTT Information field corresponding to the removed AP in the RNR element is removed or not. | As in comment. | RevisedAdded text to clarify that removed AP is not advertised in the RNR. **TGbe editor, please make the changes tagged by CID #14020 in 22/1487r3.** |

**35.3.6.2.2 Removing affiliated APs**

***TGbe editor: Please modify the 3rd paragraph in this subclause as shown below:***

Additionally, in order to terminate the BSS corresponding to (#11565) a to-be-removed affiliated AP (#11565)(see 6.3.12 (Stop)), the SME of that affiliated AP shall perform the following,

It shall follow the procedure in 11.21.7.3 (BSS transition management request) to notify all associated STAs, that are not affiliated with a non-AP MLD and (#13279)that support BTM, of the BSS termination, with the BSS Transition Management Request frame fields set as follows:

The Disassociation Imminent, BSS Termination Included, and Link Removal Imminent sub- fields of the Request Mode field are set to 1; other subfields of the Request Mode field are reserved.

The Disassociation Timer field is set to the number of TBTTs of the affiliated AP before it transmits a Disassociation frame to the STA(s) receiving the BSS Transition Management Request frame. The Disassociation Timer field value shall point to a TBTT at or later than the TBTT pointed to by the value of the Delete Timer field of the Reconfiguration Multi-Link element in transmitted beacons.

The BSS Termination Duration field shall be present and contain a BSS Termination Duration subelement (see 9.4.2.36 (Neighbor Report element)), with the BSS Termination TSF field of the subelement set to the value of the TSF timer when the BSS the affiliated AP belongs to will be terminated. The BSS Termination TSF field value shall indicate a time that is later than the TBTT the Disassociation Timer field value points to.

No other optional fields shall be present in the BSS Transition Management Request frame.

It shall start a disassociation timer with the initial value set to the value of the Disassociation Timer field, and shall decrement the timer by one after transmitting each Beacon frame, until the timer has the value of 0. The Disassociation Timer field in all subsequent transmitted BSS Transition Management Request frames shall be set to the value of this timer.

Once the disassociation timer reaches a value of 0, and before the TSF indicated by the BSS Termination TSF field, it shall follow the procedure in 11.3.6.8 (AP, AP MLD, or PCP disassociation initiation procedure) to transmit Disassociation frames to all STAs that are not affiliated with a non-AP MLD and associated with the BSS of the removed AP (#12081). The affiliated AP shall not transmit Disassociation frames until the disassociation timer has a value of 0.

***TGbe editor: Please add following NOTE as a new paragraph after the 3rd paragraph (bullet 3) in this subclause:***

NOTE 1: The SME of the removed AP performs procedure specified above in bullet points 1, 2 and 3 only for non-AP STAs that are not affiliated with a non-AP MLD and associated with the BSS of the removed AP (#13279). If there are no such associated STAs, the SME does not perform those procedure and it terminates the BSS of the removed AP after the TBTT indicated by the Delete Timer (#12996).

***TGbe editor: Please add following NOTE as a new paragraph after the new NOTE 1 above in this subclause:***

NOTE 2: The AP removal from an AP MLD and termination of the BSS corresponding to the removed AP are performed as separate procedures. The AP is removed from the AP MLD at the TBTT indicated by the Delete Timer. If there are non-AP STAs that are not affiliated with a non-AP MLD and associated with the BSS of the removed AP, the BSS corresponding to the removed AP is terminated after Disassociation frames are transmitted by the AP to all associated non-AP STAs (#13278).

***TGbe editor: Please add following two new paragraphs after the new NOTE 2 above and before the 4th paragraph (At the TBTT indicated…) in this subclause:***

At the TBTT indicated by the value of the Delete Timer subfield in transmitted Reconfiguration Multi-Link
elements, the AP MLD shall remove the affiliated AP indicated by the Link ID subfield in the STA Control field of the Per-STA Profile subelement which includes the Delete Timer subfield (#11040).

At the TBTT indicated by the value of the Delete Timer subfield in transmitted Reconfiguration Multi-Link elements, the AP MLD shall disassociate a non-AP MLD if the link corresponding to the removed AP is the only setup link between the AP MLD and the non-AP MLD (#10371, #11040)).

***TGbe editor: Please modify 4th paragraph (At the TBTT indicated …) in this subclause as shown below:***

At the TBTT indicated by the value of the Delete Timer subfield in transmitted Reconfiguration Multi-Link
elements, an associated non-AP MLD shall consider the link corresponding to the removed AP nonexistent,
and the SME of the affiliated non-AP (#11041) STA associated with the removed affiliated AP shall delete any information
maintained for that link. After a non-AP MLD deletes any information maintained for the link corresponding to the removed AP, if there are no other setup links with the AP MLD, then the non-AP MLD shall disassociate from the AP MLD (#11041).

***TGbe editor: Please add following as a new paragraph just before the existing NOTE in this subclause:***

NOTE: Once an AP affiliated with an AP MLD is removed, the other APs affiliated with the same AP MLD do not include the TBTT Information field for the removed AP in the Reduced Neighbor Report element (#11429) (#14020). Further, the removed AP is not included by the transmitted BSSIDs of the multiple BSSID sets corresponding to the APs affiliated with the same AP MLD (#11429).

***TGbe editor: Please modify the existing NOTE in this subclause as shown below:***

NOTE 3—An AP MLD with two affiliated (#12997) APs (#12997)might remove one of its affiliated APs , and in such case, the AP MLD has only one affiliated AP after the AP removal (#12998). Further, in such case the non-AP MLD that is associated with the AP MLD with two setup links has only one non-AP STA with a setup link after the AP is removed (#11569) (#13681).

***TGbe editor: Please modify the last paragraph (If an AP affiliated with…) in this subclause as shown below:***

If an AP affiliated with an AP MLD is removed, any STR or NSTR requirements and capabilities, indicated by non-AP MLDs as specified in 35.3.16.2 (Multi-link device capability and operation signaling) (#10718), that correspond to a link pair that includes the link corresponding to the removed AP shall no longer apply. Further, if an AP affiliated with an AP MLD is removed, any EMLSR or EMLMR requirements and capabilities indicated by non-AP MLDs as specified in 9.4.1.74 (EML Control field) for the link corresponding to the removed AP shall no longer apply (#13280) (#14018).