IEEE P802.11
Wireless LANs

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| CC36-Resolution-for-clause-35.11.2 |
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Abstract

This submission proposes CR for 43 CIDs: 4173, 4174, 4175, 4436, 4437, 4438, 4439, 4440, 4441, 4442, 4443, 4444, 4445, 4446, 4447, 4448, 4494, 4495, 4496, 4497, 4498, 4499, 5228, 5619, 5620, 5622, 5623, 5625, 5626, 5856, 5858, 5861, 5862, 5863, 5864, 5865, 5866, 5867, 5869, 7529, 7538, 7544, 7545 (CC36).

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Integrated additional CIDs and modified responses based on off-line feedback.
* Rev 2: Align doc to 802.11be D1.2 baseline + further comments (Edward, Yonggang)
* Rev 3: Updates based on comments during TGbe discussions and further offline comments (Alfred)

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.***

| **CID** | **Commenter** | **Pg/Ln** | **Section** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- | --- |
| 4173 | Alfred Asterjadhi | 305.30 | 35.11.2.1 | Replace "introduction" with "General". Also there is 6 levels of dependent subclauses here. I think we cant go that deep. Double check with Editor but probably we need to fix depth. | As in comment. | RevisedRenamed section.Adjusted clause structure to reduce depth**Editor: Please** **reflect the changes in Clause 35.14 tagged as #4173** |
| 4174 | Alfred Asterjadhi | 305.32 | 35.11.2.1 | there is no deletion but tear down. Please replace accordingly throughout. Also this reference to the table is a bit out of place...just remove it. Also can we reduce the length of these frames? For example call them NSEP Enable Request, response etc. | As in comment. | Revised**Editor: Please** **reflect the changes in Clause 35.14.1 tagged as #4174**The suggestion to shorten frame names is rejected. While there is value in having shorter names, deleting “priority access” would obscure the purpose of the frames. |
| 4175 | Alfred Asterjadhi | 305.32 | 35.11.2.1 | "and NSEP capable". Double condition for sending Req/Resp. Also to ensure that one of the peer is the AP it may be good to call out explicitly both cases (request to AP, and request from AP or smth like that). | As in comment. | RevisedAgree in principle. Broke into two paragraphs.**Editor: Please** **reflect the changes in Clause 35.12.1 tagged as #4175** |
| 5856 | Lei Wang | 305.33 | 35.11.2.1 | There are two sets of terms used in NSEP Priority Access related description, Setup/Deletion vs. Enable/Disable (Enabled/Disabled), which refers to the same thing, i.e., activate / deactivate NSEP. | Suggest chaging the terms Setup/Deletion to the terms Enable/Disable (Enabled/Disabled) for NSEP Priority Access related desciption. Or explicitly point out those two sets of terms are used exchangeably in 11be spec. |  RevisedAgree in principle. Revised text to use “enable” and “tear down” to be consistent with frame names. The corresponding NSEP priority access states are designated as enabled and torn down**Editor: Please** **reflect the changes in Clause 35.12.1 tagged as #5856** |
| 5861 | Lei Wang | 306.48 | 35.11.2.2.2.1 | What's the default status of NSEP Priority Access, disabled or enabled, where the default status means the status right after (re)Assoication with verified NESP Priority Access authorization? | At beginning of Section 35.11.2.1 or 35.11.2.2.2.1, suggest adding text to clarify that the default status of NSEP Priority Access is Disabled. | RevisedAgree with the comment. Add a sentence to define the NSEP priority access in torn down state after Association / ML setup.**Editor: Please** **reflect the changes in Clause 35.12.1 tagged as #5861** |
| 4436 | Arik Klein | 306/13 | 35.11.2.2.1 | In Figure 35-19, on the Recipient side, need to switch between the right-hand column (designated as "MLD or non-AP EHT STA MAC") and the left-hand column (designated as "MLD or non-AP EHT STA SME"), since the frames are exchanged between MAC entities of peer MLD/non-AP EHT STA | As in comment | **Revised**Agree in principle with the comment. Correct Figure 35-22 as requested by the commenter.**TGbe Editor, please implement changes as shown in Figure 35-22 tagged as #4436.** |
| 5858 | Lei Wang | 306.12 | 35.11.2.2.1 | In Figure 35-19, how can the NSEP priority access Originator's MAC talk to the Recipient's SME directly? Should it be the originator's MAC talks to the recipient's MAC? | In Figure 39-19, at the Recipient side, suggest swiching the position of the MAC and the SME. | Revised.Resolved in conjunction with # 4436.**TGbe Editor, please implement changes as shown in Figure 35-22 tagged as #4436**. |
| 7529 | Tomoko Adachi | 306.35 | 35.11.2.2.1 | Figure 35-19 gives the impression that the NSEP priority access is also allowed for direct communications. It should be revisited to avoid such impression. | As in comment. | Revised.Resolved in conjunction with # 4436.**TGbe Editor, please implement changes as shown in Figure 35-22 tagged as #4436.** |
| 4437 | Arik Klein | 306/50 | 35.11.2.2.2.1 | As opposed to stated in the following sentence "The initiating non-AP MLD or non-AP EHT STA shall transmit an NSEP Priority Access Enable Request frame to an associated AP MLD with dot11EHTNSEPPriorityAccessActivated" the non-AP MLD does not transmit any frame - this is done solely by any of the affiliated non-AP STAs. | Please revise the sentence as follows: "One of the non-AP STA affiliated with the initiating non-AP MLD or the non-AP EHT STA shall transmit an NSEP Priority Access Enable Request frame (9.6.35.5 (NSEP Priority Access Enable Request frame format(#1119)(#1488))) | **Revised**Agree in principle with the comment.Apply the proposed change for both non-AP MLD and AP MLD that are mentioned in the sentence.**TGbe Editor, please implement changes as shown in Clause 35.14.2.2 tagged as #4437** |
| 4438 | Arik Klein | 306/54 | 35.11.2.2.2.1 | If the intention of the sentence "The destination of the NSEP Priority Access Enable Request frame is the AP MLD" is that the NSEP Priority Access Enable Request frame will include the AP MLD MAC address - need to add the MLE into the NSEP Priority Access Enable Request frame format. The RA can't include the MLD MAC address but only the MAC address of the AP affiliated with the AP MLD. | Please add the MLE to the NSEP Priority Access Enable Request frame format or clarify the meaning of this sentence. | **Revised**Agree in principle with the comment. Revise the sentence to precisely specify the MAC address included in the RA field of the NSEP Priority Access Enable Request frame. Similar revision is updated for the same sentence that refers to NSEP Priority Access Teardown frame.**TGbe Editor, please implement changes as shown in Clause 35.14.2.2 tagged as #4438.** |
| 4439 | Arik Klein | 306/58 | 35.11.2.2.2.1 | As opposed to stated in the following sentence "If the initiating non-AP MLD or non-AP EHT STA receives an NSEP Priority Access Enable Response frame..." the non-AP MLD does not receive any frame - this is done solely by any of the affiliated non-STAs. | Please revise the sentence as follows:" If one of the non-AP STAs affiliated with the initiating non-AP MLD or the non-AP EHT STA receives an NSEP Priority Access Enable Response frame..." | **Accepted** |
| 5619 | John Wullert | 306.58 | 35.11.2.2.2.1 | Priority access treatment procedure defined in 35.11.3 requires non-AP MLD to accept EDCA parameters to sent by AP MLD in the NSEP Priority Access Enable Response frame. Need to describe that behavior here. | Add text to capture EDCA-related requirements. | **Revised****TGbe Editor, please implement changes as shown in Clause 35.14.2.2 tagged as #5619.** |
| 4440 | Arik Klein | 307/4 | 35.11.2.2.2.1 | As opposed to stated in the following sentence "If the initiating non-AP MLD or non-AP EHT STA receives an NSEP Priority Access Enable Response frame..." the non-AP MLD does not receive any frame - this is done solely by any of the affiliated non-STAs. | Please revise the sentence as follows:"If one of the non-AP STAs affiliated with the initiating non-AP MLD or the non-AP EHT STA receives an NSEP Priority Access Enable Response frame..." | **Accepted** |
| 4441 | Arik Klein | 307/10 | 35.11.2.2.2.1 | The sentence "The initiating non-AP MLD or non-AP EHT STA shall not apply NSEP priority access procedure " is not clear as a stand-alone sentence. | Please revise the sentence as follows:" \*In this case,\* the initiating non-AP MLD or non-AP EHT STA shall not apply NSEP priority access procedure" | **Accepted** |
| 4442 | Arik Klein | 307/21 | 35.11.2.2.2.1 | As opposed to stated in the following sentence "The initiating non-AP MLD or non-AP EHT STA shall transmit an NSEP Priority Access Teardown frame to an associated AP MLD with dot11EHTNSEPPriorityAccessActivated set to true. " the non-AP MLD does not transmit any frame - this is done solely by any of the affiliated non-STAs. | Please revise the sentence as follows:"One of the non-AP STA affiliated with the initiating non-AP MLD or the non-AP EHT STA shall transmit an NSEP Priority Access Teardown frame (9.6.35.5 (NSEP Priority Access Enable Request frame format(#1119)(#1488))) to an AP affiliated with the associated AP MLD with dot11EHTNSEPPriorityAccessActivated set to true that is operating on the same link. " | **Accepted****TGbe Editor, please implement changes as shown in Clause 35.14.2.2.2 tagged as #4442** |
| 5863 | Lei Wang | 307.22 | 35.11.2.2.2.1 | Wrong reference to the subsection of NSEP Priority Access Teardown frame. | Change "9.6.36.5 NSEP Priority Access Enable Request frame format" to "9.6.35.7 NSEP Priority Access Teardown frame details" | **Revised****TGbe Editor: Please** **reflect the changes in Clause 35.12.1 labelled as #5863** |
| 5228 | Huizhao Wang | 307.32 | 35.11.2.2.2.2 | Missing the procedure of non-AP STA initiated terminating the NSEP Priority Access requested by AP MLD or AP. | Please add the procedure in spec text. | **Rejected**Procedures specify termination by AP MLD or non-AP MLD without regard to which non-AP STA sent the request to enable NSEP priority access. |
| 5620 | John Wullert | 307.33 | 35.11.2.2.2.2 | Sentence saying that AP MLD "may have functionality to enable NSEP priority access" seems to be in contradiction with sentence on page 304 that says MLD capable of invoking NSEP priority access shall have value of true for dot11EHTNSEPPriorityAccessActivated. In addition, there is no similar language for non-AP MLDs. | Revise sentence this sentence to be consistent with earlier requirement. | **Revised**Agree with the comment – the sentence in subject is removed.**TGbe Editor: Please** **reflect the changes in Clause 35.12.1 labelled as #5620** |
| 5862 | Lei Wang | 307.16 | 35.11.2.2.2.1 | The higher layer instruction is conveyed via the SME primitive MLME-NSEPPRIACCESSENABLE.request. So the two phases in the "when ....." actually refers to the same thing from MAC's point of view. | Suggest changing the text in line 16 and 17 on page 307 as follows:"When instructed to do so by a higher layer function and uUpon receipt of an ﾠMLME-NSEPPRIACCESSENABLE.request primitive," | **Accepted** |
| 5864 | Lei Wang | 307.33 | 35.11.2.2.2.2 | What does it mean by an AP MLD with with NSEP priority access disabled? An AP MLD may have multliple assoicated non-AP MLDs among which some may have NSEP enabled while some may not. So, for MLDs, the NSEP enable/disable is per non-AP MLD. | Suggest the following two changes:1) line 33 page 307, change the text as follows:An AP MLD with dot11EHTNSEPPriorityAccessActivated equal to true and with NSEP priority access disabled may have the functionality to enable NSEP priority access.2) line 41 page 307, change the text as follows:... to an associated non-AP MLD or non-AP EHT STA with NSEP priority access disabled and with dot11EHTNSEPPriorityAccessActivated set to true. | **Revised**Note: Sentence referred to in first suggested change was deleted in response to #5620. Added text to clarify that AP MLD enables NSEP priority access for a specific associated non-AP MLD.**TGbe Editor: Please** **reflect the changes in Clause 35.12.2.2.3 tagged as #5864** |
| 4443 | Arik Klein | 307/40 | 35.11.2.2.2.2 | As opposed to stated in the following sentence "The initiating AP MLD shall transmit an NSEP Priority Access Enable Request frame to an associated non-AP MLD or non-AP EHT STA with dot11EHTNSEPPriorityAccessActivated set to true. " the AP MLD does not transmit any frame - this is done solely by any of the affiliated APs. | Please revise the sentence as follows: "An AP affiliated with the initiating AP MLD shall transmit an NSEP Priority Access Enable Request frame to an associated non-AP MLD or non-AP EHT STA with dot11EHTNSEPPriorityAccessActivated set to true. " | **Revised**Agree in principle with the comment. Need to revise the other part of the sentence regarding the non-AP STA affiliated with the associated non-AP MLD as well.**TGbe Editor, please implement changes as shown in Clause 35.14.2.2.3 tagged as #4443** |
| 4444 | Arik Klein | 307/45 | 35.11.2.2.2.2 | Please elaborate what does "destination" mean in the following sentence: "The destination of the NSEP Priority Access Enable Request frame is the non-AP MLD" - if it refers to the value in RA of the NSEP Priority Access Enable Request frame, then it should refer to the MAC address of the non-AP STA affiliated with the non-AP MLD operating on the link on which the NSEP Priority Access Enable Request frame is sent.... | Please clarify or correct the sentence, as proposed in the comment. | **Revised**Agree in principle with the comment. Revise the sentence to precisely specify the MAC address included in the RA field of the NSEP Priority Access Enable Request frame.Similar revision is updated for the same sentence that refers to NSEP Priority Access Teardown frame**TGbe Editor, please implement changes as shown in Clause 35.12.2.2.3 tagged as #4444** |
| 5865 | Lei Wang | 307.41 | 35.11.2.2.2.2 | When the NSEP priority access setup is initiated by an AP MLD, does the AP MLD need to verify the authority of the requested non-AP MLD or non-AP EHT STA to use NSEP priority access, before transmitting an NSEP Priority Access Enable Request frame to the associated non-AP MLD or non-AP EHT STA?If yes, please add the verification step in the NSEP setup procedure initiated by AP;If no, why? please provide clarification text in the spec. | As provided in the comment. | **Revised**The authorization is done by the higher layers and is verified during ML Setup / Association procedure. However, the AP MLD may initiate the process with a non-AP MLD, if instructed by the higher layer.**TGbe Editor: Please** **reflect the changes in Clause 35.14.2.2.3 labelled as****#5865** |
| 4445 | Arik Klein | 307/48 | 35.11.2.2.2.2 | As opposed to stated in the following sentence "If the initiating AP MLD receives an NSEP Priority Access Enable Response frame with a matching dialog token and a value of SUCCESS in the Status Code field, ..... " the AP MLD does not receive any frame - this is done solely by any of the affiliated APs. | Please revise the sentence as follows: "If \*one of the APs affiliated with\* the initiating AP MLD receives an NSEP Priority Access Enable Response frame with a matching dialog token and a value of SUCCESS in the Status Code field, ..... " | **Accepted** |
| 4446 | Arik Klein | 307/57 | 35.11.2.2.2.2 | As opposed to stated in the following sentence "If the initiating AP MLD receives an NSEP Priority Access Enable Response frame with a matching dialog token and a value not equal to SUCCESS in the Status Code field, ..... " the AP MLD does not receive any frame - this is done solely by any of the affiliated APs. | Please revise the sentence as follows:"If \*one of the APs affiliated with\* the initiating AP MLD receives an NSEP Priority Access Enable Response frame with a matching dialog token and a value not equal to SUCCESS in the Status Code field, ..... " | **Accepted** |
| 5622 | John Wullert | 308.05 | 35.11.2.2.2.2 | Sentence saying that AP MLD "may have functionality to disable NSEP priority access" seems to be in contradition with the intention of the sentence on page 304 that says MLD capable of invoking NSE priorityy access shall have value of true for dot11EHTNSEPPriorityAccessActivated. In addition, there is no similar language for non-AP MLDs. | Revise sentence this sentence to be consistent with other text. | **Revised**The sentence is removed to avoid the conflict.Resolved in conjunction with CID 7538**TGbe Editor: Please** **reflect the changes in Clause 35.12.2.2.3 labelled as #5622** |
| 7538 | Tomoko Adachi | 308.05 | 35.11.2.2.2.2 | "An AP MLD with dot11EHTNSEPPriorityAccessActivated equal to true and with NSEP priority access enabled may have the functionality to teardown NSEP priority access." Similar comment with the one for pp.ll 306.46. | Change it to read "An NSEP AP with NSEP priority access enabled may have the functionality to teardown NSEP priority access."(Expecting the change from dot11EHTNSEPPriorityAccessActivated to dot11EHTNSEPPriorityAccessImplemented by the previous comment for pp.ll 306.46.) | **Revised**Resolved in conjunction with 5622**TGbe Editor: Please** **reflect the changes in Clause 35.12.2.2.3 labelled as #5622** |
| 4495 | Arik Klein | 308/5 | 35.11.2.2.2.1 | Add "s" after the word "equal" in the following sentence:" An AP MLD with dot11EHTNSEPPriorityAccessActivated equal to true ..." | As in comment | **Revised**Sentence deleted in response to CID #5622.**TGbe Editor: Please** **reflect the changes in Clause 35.12.2.2.3 labelled as #5622** |
| 4447 | Arik Klein | 308/12 | 35.11.2.2.1 | As opposed to stated in the following sentence "The initiating AP MLD may transmit an NSEP Priority Access Teardown frame to an associated non-AP MLD or non-AP EHT STA with dot11EHTNSEPPriorityAccessActivated set to true. " the AP MLD does not transmit any frame - this is done solely by any of the affiliated APs. | Revise the sentence as follows:"\*An AP affiliated with \* the initiating AP MLD may transmit an NSEP Priority Access Teardown frame to an associated non-AP MLD or non-AP EHT STA with dot11EHTNSEPPriorityAccessActivated set to true. " | **Revised**Agree with the commenter. Additionally, in order to keep the same language as in case of enabling the NSEP Prority access, the NSEP Priority Access Teardown frame shall be transmitted when MLME-NSEPPRIACCESSTEARDOWN.request primitive is received.**TGbe Editor: Please** **reflect the changes in Clause 35.12.2.2.3 labelled as #4447** |
| 5866 | Lei Wang | 308.17 | 35.11.2.2.2.2 | It seems some logical problem in the last sentence of Section 35.11.2.2.2.2: "The initiating AP MLD shall disable NSEP priority access so that traffic subsequently transmitted to the indicated non-AP MLD or non-AP EHT STA does not receive NSEP priority access treatment.", where only mentioning the purpose of "disable NSEP", not giving the condition or trigger for the disable. Note that this is a "shall" statement, without a condition, the initiating AP MLD are doing this Disable all the time.Another understanding of this sentence, just a guess, could be that it is intended to say who enables NSEP, who shall disable it after use. | Please fix the logical problem in the sentence in line 17 page 308, as pointed out in the comment. | **Revised**Combined paragraphs that were separated by Note 2 to make the trigger clear without the reasons or the conditions for the triggering which are out of the scope of the 802.11be. **TGbe Editor: Please** **reflect the changes in Clause 35.12.2.2.3 labelled as #5866** |
| 5623 | John Wullert | 308.29 | 35.11.2.2.3.1 | Requirement for behavior of receiving AP MLD includes "with NSEP priority access disabled." This is not correct - it must be that it has NSEP priority access disabled specifically for the requesting non-AP MLD (because an AP could have NSEP priority access enabled for some non-AP MLDs and disabled for others). | Revise requirement as in comment | **Revised**Agree with the comment. Need to update both cases of setting the NSEP Prority Access state to “enabled” or “torn-down”**TGbe Editor: Please** **reflect the changes in Clause 35.14.2.2.3 labelled as #5623** |
| 5867 | Lei Wang | 308.38 | 35.11.2.2.3.1 | How does the AP MLD verify the the authority of the requesting non-AP MLD or non-AP EHT STA to use NSEP priority access upon receing the NSEP Priority Access Enable Request frame? Has such verifcation already been done during (re)Association? Also, is such verification result indicated by the Status Code in the NSEP response primitive? | Please clarify how the AP MLD verify the the authority of the requesting non-AP MLD or non-AP EHT STA to use NSEP priority access in line 38 page 308, using the Status Code in the NSEP response primitive, or entry look-up in dot11InterworkingEntry, or something else ... | **Revised**Agree with the comment. The verification is done at the ML Setup / Association stage and during the NSEP Priority Access service setting the AP confirms the authority of the requesting non-AP MLD**TGbe Editor: Please** **reflect the changes in Clause 35.14.2.2.3 labelled as #5867** |
| 5625 | John Wullert | 309.08 | 35.11.2.2.3.1 | Two list items should be at same level (a and b) rather that at two different levels | Promote the item now listed as 1) to be b) | **Accepted** |
| 5626 | John Wullert | 309.22 | 35.11.2.2.3.2 | Priority access treatment procedure defined in 35.11.3 requires non-AP MLD to accept EDCA parameters sent by AP MLD in the NSEP Priority Access Enable Request frame. Need to describe that behavior here. | Add text to capture EDCA-related requirements. | **Revised**Agree with the comment – the text was added**TGbe Editor: Please** **reflect the changes in Clause 35.14.2.2.3 labelled as #5626** |
| 4448 | Arik Klein | 309.23 | 35.11.2.2.3.2 | As opposed to stated in the following sentence "Upon receipt of the MLME-NSEPPRIACCESSENABLE.response primitive, the receiving non-AP MLD or non-AP EHT STA shall reply to the initiating AP MLD with an NSEP Priority Access Enable Response frame ..... " the non-AP MLD does not send a respond to any frame - this is done solely by any of its affiliated non-AP STAs. | Revise the sentence as follows:"Upon receipt of the MLME-NSEPPRIACCESSENABLE.response primitive, the receiving \*non-AP STA affiliated with the\* non-AP MLD or non-AP EHT STA shall reply to the initiating AP MLD with an NSEP Priority Access Enable Response frame ..... " |  **Revised**Agree in principle. Revised to clarify that frame transmission is by STAs affiliated with MLD**TGbe Editor: Please** **reflect the changes in Clause 35.14.2.2.5 labelled as #4448** |
| 5869 | Lei Wang | 309.26 | 35.11.2.2.3.2 | What's the condition for setting the status code to SUCCESS for the sentence in line 26 page 309: "The receiving non-AP MLD or non-AP EHT STA should set the Status Code field to a value of SUCCESS."? | Please specify the condition for setting Status Code to SUCCESS in the sentence in line 26 page 309. | **Revised**Agree in principle with the comment. Adding a condition that the Status Code should be set to SUCCESS unless the requesting is incapale to support the NSEP Priority Access service.**TGbe Editor: Please** **reflect the changes in Clause 35.14.2.2.5 labelled as #5869** |
| 7544 | Tomoko Adachi | 309.33 | 35.11.2.2.3.2 | "If the status code in the ..." The field name should start with upper case letters. | Change it to read "If the Status Code in the ...". | **Accepted** |
| 7545 | Tomoko Adachi | 309.38 | 35.11.2.2.3.2 | "If the status code in the ..." The field name should start with upper case letters. | Change it to read "If the Status Code in the ...". | **Accepted** |
| 4496 | Arik Klein | 308.28 | 35.11.2.2.3.1 | Add "s" after the word "equal" in the following sentence:" ..an AP MLD with dot11EHTNSEPPriorityAccessActivated equal to true ..." | As in comment | **Rejected**“Equal” is the correct form and is used in this same manner in numerous locations in current spec. |
| 4497 | Arik Klein | 309.02 | 35.11.2.2.3.1 | Add "s" after the word "equal" in the following sentence:" ..an AP MLD with dot11EHTNSEPPriorityAccessActivated equal to true ..." | As in comment | **Rejected**“Equal” is the correct form and is used in this same manner in numerous locations in current spec. |
| 4498 | Arik Klein | 309.16 | 35.11.2.2.3.1 | Add "s" after the word "equal" in the following sentence:" ..a non-AP MLD or non-AP EHT STA with dot11EHTNSEPPriorityAccessActivated equal to true ..." | As in comment | **Rejected**“Equal” is the correct form and is used in this same manner in numerous locations in current spec. |
| 4499 | Arik Klein | 309.44 | 35.11.2.2.3.2 | Add "s" after the word "equal" in the following sentence:" ..a non-AP MLD or non-AP EHT STA with dot11EHTNSEPPriorityAccessActivated equal to true ..." | As in comment | **Rejected**“Equal” is the correct form and is used in this same manner in numerous locations in current spec. |
| 4494 | Arik Klein | 306/47 | 35.11.2.2.2.1 | Add "s" after the word "equal" in the following sentence:" a non-AP MLD or non-AP EHT STA with dot11EHTNSEPPriorityAccessActivated equal to true ..." | As in comment | **Rejected**“Equal” is the correct form and is used in this same manner in numerous locations in current spec. |

## Discussion

TBD

*TGbe editor: Please note baseline is 11be D1.2*

## 35.14.2 NSEP priority access operation

## 35.14.2.1 General [#4173]

NSEP priority access is established at the MAC[#4174] by the initiation of the SME. The NSEP priority access between an AP MLD and its associated non-AP MLD or EHT non-AP STA can be in one of the following two states: enabled state or torn down state [#5856]. The protocols to enable [#5856] and tear down [#4174] NSEP priority access are described in this subclause.

[#4175](#1472)(#1505)A non-AP STA affiliated with non-AP MLD or non-AP EHT STA shall not send NSEP Priority Access Enable Request and NSEP Priority Access Teardown frames to an associated EHT AP or AP affiliated with the associated AP MLD unless RSNA with management frame protection (see 12.2.7 (Requirements for management frame protection) and 12.6 (RSNA security association management)) has been successfully negotiated and are capable of invoking NSEP priority access.

[#4175] An AP affiliated with AP MLD shall not send NSEP Priority Access Request and NSEP Priority Access Teardown frames to a non-AP STA affiliated with the associated non-AP MLD or to associated EHT non-AP STA unless RSNA with management frame protection (see 12.2.7 (Requirements for management frame protection) and 12.6 (RSNA security association management)) has been successfully negotiated and are capable of invoking NSEP priority access

## 35.14.2.2 Setup procedures for NSEP priority access

[#5861] NSEP priority access shall be in a torn down state upon the completion of successful ML setup procedure (i.e. when non-AP MLD associates with an AP MLD) or Association procedure (in case of EHT non-AP STA).

### 35.14.2.2.1 General

(#1127) The procedures for enabling and tearing down the NSEP priority access are described in the following clauses [#4173]. The procedure for enabling NSEP priority access is illustrated in Figure 35-23 (Enabling NSEP priority access [#5856](#1127)).

*TGbe editor: Replace the existing Figure 35-22 (NSEP priority access setup) with the following figure:* [#4436]



Figure 35-22— Enabling NSEP priority access [#5856](#4436)

***TGbe editor: Add the following subclause after Figure 35-22***

[#4436] As illustrated in Figure 35-22, either an MLD or a non-AP EHT STA supporting NSEP priority access capability invokes NSEP priority access on-demand when instructed to do so by a higher layer function. After successful invocation of NSEP priority access, both the originator and the responder apply the priority access treatment to NSEP traffic. The AP MLD and non-AP MLD may send a request on any enabled link between them and, if authorized, NSEP priority access treatment will be applied on all enabled links between the MLDs.

### 35.14.2.2.2 Procedures at the originating non-AP MLD [#4173]

 [#4173]

***TGbe editor: Please update the paragraphs in this subclause as shown below:***

[#5856] When instructed to do so by a higher layer function and upon receipt of an MLME-NSEPPRIACCESSENABLE.request primitive, a non-AP MLD or non-AP EHT STA with dot11EHTNSEPPriorityAccessActivated [#4494] equal to true and with NSEP priority access in the torn down state shall follow the procedure below to request a change for the NSEP priority access state to enabled.

a) [#4437] (#1119)(#1488)(#1472) A non-AP STA which is operating on an enabled link and is affiliated with the initiating non-AP MLD or non-AP EHT STA shall transmit an NSEP Priority Access Enable Request frame (9.6.35.5 (NSEP Priority Access Enable Request frame format(#1119)(#1488))) to the corresponding AP affiliated with the associated AP MLD with dot11EHTNSEPPriorityAccessActivated set to true.
[#4438] The destination of the NSEP Priority Access Enable Request frame is the MAC address of the AP that is operating on the same enabled link and is affiliated with the AP MLD, whose MAC address indicated by the value of the PeerSTAAddress parameter in the MLME- NSEPPRIACCESSENABLE.request primitive is contained within the Multi Link element that is included in the transmitted Beacon frame..
Note: the Multi Link element is included in the Beacon frame as an individual element or as part of the Nontransmitted BSSID profile subelement in the Multiple BSSID element.

b) (#1119)(#1488)If a non-AP STAs affiliated with [#4439] the initiating non-AP MLD or non-AP EHT STA receives an NSEP Priority Access Enable Response frame (9.6.35.6 (NSEP Priority Access Enable Response frame format(#1119)(#1488))) with a matching dialog token and a value of SUCCESS in the Status Code field, then the initiating non-AP MLD or non-AP EHT STA shall issue an MLME- NSEPPRIACCESSENABLE.confirm primitive with a value of SUCCESS in the Status Code field indicating that NSEP priority access is in an enabled state [#5856]. The initiating non-AP MLD or non-AP EHT STA shall enable NSEP priority access so that subsequently transmitted traffic receives NSEP priority access treatment using the procedure defined in 35.12.3 (NSEP priority access procedure). The initiating non-AP MLD should update the CWmin[AC], CWmax[AC], AIFSN[AC], and TXOP[AC] state variables of its affiliated non-AP STAs to the values provided in the EDCA Parameter Set element as soon as practical in the implementation and shall update those state variables within an interval of time equal to one beacon interval. [#5619]

c) (#1119)(#1488)(#1708)If a non-AP STAs affiliated with [#4440] the initiating non-AP MLD or non-AP EHT STA receives an NSEP Priority Access Enable Response frame (9.6.35.6 (NSEP Priority Access Enable Response frame format(#1119)(#1488))) with a matching dialog token and a value not equal to SUCCESS in the Status Code field, then the initiating non-AP MLD or non-AP EHT STA shall issue an MLME- NSEPPRIACCESSENABLE.confirm primitive with the status code from the response frame indicating the failure to change NSEP priority access to an enabled state [#5856]. In this case, the [#4441] initiating non-AP MLD or non-AP EHT STA shall not apply NSEP priority access procedure. The higher layer function that triggers the NSEP priority access is responsible for managing reattempts after receiving responses with a value other than SUCCESS.

[#5856] When instructed to do so by a higher layer function and upon receipt of an MLME-NSEPPRIACCESSTEARDOWN.request primitive, a non-AP MLD or non-AP EHT STA with dot11EHTNSEPPriorityAccessActivated set to true and with NSEP priority access in an enabled state shall use the following procedure for changing the NSEP priority access to a torn down state.

a) [#4442] (#1127) One of the non-AP STAs affiliated with the initiating non-AP MLD or non-AP EHT STA shall transmit an NSEP Priority Access Teardown frame (9.6.35.7 NSEP Priority Teardown frame details) [#5863] to an AP affiliated with the associated AP MLD with dot11EHTNSEPPriorityAccessActivated set to true. [#4438] The destination of the NSEP Priority Access Enable Request frame is the MAC address of the AP that is operating on the same enabled link and is affiliated with the AP MLD, whose MAC address indicated by the value of the PeerSTAAddress parameter in the MLME- NSEPPRIACCESSTEARDOWN.request primitive is contained within the Multi Link element that is included in the transmitted Beacon frame..
The initiating non-AP MLD or non-AP EHT STA shall change the NSEP priority access to the torn down state [#5856] so that subsequently transmitted traffic does not receive NSEP priority access treatment.
Note: the Multi Link element is included in the Beacon frame as an individual element or as part of the Nontransmitted BSSID profile subelement in the Multiple BSSID element.

### 35.14.2.2.3 Procedures at the originating AP MLD[#4173]

***TGbe editor: Please update the paragraphs in this subclause as shown below:***

 [#5620] When instructed to do so by a higher layer function [#5862] triggered via an external interface and upon receipt of an MLME-NSEPPRIACCESSENABLE.request primitive, an AP MLD that supports this functionality shall follow the procedure below to request the change of the NSEP priority access for an associated non-AP MLD or an associated EHT non-AP STA [#5864] to the enabled state [#5856]:

NOTE 1—The definition of the external interface is out of the scope of this standard.

[#4443] (#1119)(#1488)(#1472) An AP which is operating on an enabled link and is affiliated with the initiating AP MLD shall transmit an NSEP Priority Access Enable Request frame (9.6.35.5 (NSEP Priority Access Enable Request frame format(#1119)(#1488))) to the corresponding non-AP STA affiliated with an associated non-AP MLD or to an associated non-AP EHT STA, with dot11EHTNSEPPriorityAccessActivated set to true and with NSEP priority access in the torn down state for that non-AP MLD or non-AP EHT STA [#5864]. The destination of the NSEP Priority Access Enable Request frame is the non-AP EHT STA indicated by the value of the PeerSTAAddress parameter in the MLME-NSEPPRIACCESSENABLE.request primitive or the MAC address of the non-AP STA that is operating on the same link on which the NSEP Priority Access Enable Request frame is transmitted and is affiliated with the non-AP MLD whose MAC address value is [#4444] indicated by the value of the PeerSTAAddress parameter in the MLME- NSEPPRIACCESSENABLE.request primitive. In order to support NSEP priority communications destined for a non-authorized device, the AP MLD may initiate the process with a non-AP MLD or non-AP EHT STA as instructed by the higher layer. [#5865]

[#4445] (#1119)(#1488)If an AP affiliated with the initiating AP MLD receives an NSEP Priority Access Enable Response frame (9.6.35.6 (NSEP Priority Access Enable Response frame format(#1119)(#1488))) with a matching dialog token and a value of SUCCESS in the Status Code field, then the initiating AP MLD shall issue an MLME-NSEPPRIACCESSENABLE.confirm primitive with a value of SUCCESS in the Status Code field indicating successful transition of NSEP priority access to the enabled state [#5856]. The initiating AP MLD shall change NSEP priority access to the enabled state [#5856] so that subsequently transmitted traffic receives NSEP priority access treatment using the procedure defined in [35.12.3 (NSEP priority access procedure)](#bookmark64).

[#4446] (#1119)(#1488)(#1708)If an AP affiliated with the initiating AP MLD receives an NSEP Priority Access Enable Response frame (9.6.35.6 (NSEP Priority Access Enable Response frame format(#1119)(#1488))) with a matching dialog token and a value not equal to SUCCESS in the Status Code field, then the initiating AP MLD shall issue an MLME-NSEPPRIACCESSENABLE.confirm primitive with the status code from the response frame indicating the failure to change NSEP priority access to the enabled state [#5856]. The initiating AP MLD shall not apply the NSEP priority access procedure. The external interface that triggers the NSEP priority access is responsible for managing reattempts after receiving responses with a value other than SUCCESS.

[#5622]When triggered via an external interface, and upon receipt of an MLME-NSEPPRIACCESSTEARDOWN.request primitive, an AP MLD with dot11EHTNSEPPriorityAccessActivated equal to true shall use the following procedure for changing the NSEP priority access state to torn down [#5856].

 [#5866]

[#4447] (#1127) An AP affiliated with the initiating AP MLD shall transmit an NSEP Priority Access Teardown frame (9.6.35.7 (NSEP Priority Access Teardown frame details(#1127))) to a non-AP STA affiliated with an associated non-AP MLD or a non-AP EHT STA with dot11EHTNSEPPriorityAccessActivated set to true. [#4444] The destination of the NSEP Priority Access Teardown frame is the non-AP EHT STA indicated by the value of the PeerSTAAddress parameter in the MLME-NSEPPRIACCESSTEARDOWN.request primitive or the MAC address of the non-AP STA that is operating on the same link on which the NSEP Priority Teardown frame is transmitted and is affiliated with the non-AP MLD whose MAC address value is indicated by the value of the PeerSTAAddress parameter in the MLME-NSEPPRIACCESSTEARDOWN.request primitive. The initiating AP MLD shall change the NSEP priority access state to torn down [#5856] so that traffic subsequently transmitted to the indicated non-AP MLD or non-AP EHT STA does not receive NSEP priority access treatment.

NOTE 2—The definition of the external interface is out of scope of this standards. [#5866]

### **35.14.2.2.4 Procedure at the receiving AP MLD [#4173]**

 (#1119)(#1488)Upon receipt of an NSEP Priority Access Enable Request frame (9.6.35.5 (NSEP Priority Access Enable Request frame format(#1119)(#1488))), an AP MLD with dot11EHTNSEPPriorityAccessActivated equal to true [#5623] shall use the following procedure to enable NSEP priority access for the requesting non-AP MLD [#5623],.

1. The receiving AP MLD shall issue an MLME-NSEPPRIACCESSENABLE.indication primitive.
2. Upon receipt of the MLME-NSEPPRIACCESSENABLE.response primitive, the receiving AP MLD shall reply to the initiating non-AP MLD or non-AP EHT STA with an NSEP Priority Access Enable Response frame (9.6.35.6 (NSEP Priority Access Enable Response frame format(#1119)(#1488))) using the following procedure:
	1. The AP MLD shall confirm [#5867] the authority of the requesting non-AP MLD or non-AP EHT STA to use NSEP priority access and the status code shall reflect the results of the authorization as described below:

Note: As described above, the AP MLD verifies the authority of a non-AP MLD to use NSEP priority access during (re)association. During the process of enabling NSEP priority access, the AP MLD confirms that prior verification using locally stored information. [#5867]

* + 1. If the requesting non-AP MLD or non-AP EHT STA is verified for NSEP priority access, the AP MLD shall set the Status Code field to a value of SUCCESS.
		2. If the requesting non-AP MLD or non-AP EHT STA is not verified for NSEP priority access, the AP MLD shall set the Status Code field to a value of NSEP\_DENIED\_UNAUTHORIZED.
		3. If the receiving AP MLD cannot support NSEP priority access for the initiating non-AP MLD or non-AP EHT STA for any other reason, the receiving AP MLD shall set the Status Code field with a value of NSEP\_DENIED\_OTHER\_REASON as defined in

9.4.1.9 (Status Code field).

1. If the Status Code in the MLME-NSEPPRIACCESSENABLE.response primitive is equal to SUCCESS, the receiving AP MLD STA shall set the state of the NSEP priority access to enabled for the requesting non-AP MLD or non-AP EHT STA [#5623] so that traffic subsequently transmitted to the requesting non-AP MLD or non-AP EHT STA receives NSEP priority access treatment using a procedure defined in [35.12.3 (NSEP priority access procedure)](#bookmark64).
2. If the Status Code in the MLME-NSEPPRIACCESSENABLE.response primitive is equal to a value other than SUCCESS, the receiving AP MLD shall keep the torn down state of the NSEP priority access for the requesting non-AP MLD or non-AP EHT STA [#5623] so traffic subsequently transmitted to the requesting non-AP MLD or non-AP EHT STA does not receive NSEP Priority Access treatment.

(#1127)Upon receipt of an NSEP Priority Access Teardown frame (9.6.35.7 (NSEP Priority Access Teardown frame details(#1127))), an AP MLD with dot11EHTNSEPPriorityAccessActivated equal to true and with NSEP priority access enabled state shall use the following procedure to tear down [#5856] NSEP priority access.

1. The receiving AP MLD shall issue an MLME-NSEPPRIACCESSTEARDOWN.indication primitive.
2. [#5625] The receiving AP MLD shall change the NSEP priority access state to torn down for the requesting non-AP MLD or non-AP EHT STA [#5623] [#5856] so that traffic subsequently transmitted to the requesting non-AP MLD or non-AP EHT STA does not receive NSEP priority access treatment.

### 35.14.2.2.5 Procedures at the receiving non-AP MLD [#4173]

 [#4173]

(#1119)(#1488)Upon receipt of an NSEP Priority Access Enable Request frame (9.6.35.5 (NSEP Priority Access Enable Request frame format(#1119)(#1488))), a non-AP MLD or non-AP EHT STA with dot11EHTNSEPPriorityAccessActivated equal to true and with NSEP priority access in torn down state [#5856] shall use the following procedure to enable NSEP priority access.

The receiving non-AP MLD or non-AP EHT STA shall issue an MLME- NSEPPRIACCESSENABLE.indication primitive.

The receiving non-AP MLD should update the CWmin[AC], CWmax[AC], AIFSN[AC], and TXOP[AC] state variables of its affiliated non-AP STAs to the values provided in the EDCA Parameter Set element as soon as practical in the implementation and shall update the those state variables within an interval of time equal to one beacon interval. [#5626]

[#4448] (#1469)(#1471)(#1707)Upon receipt of the MLME-NSEPPRIACCESSENABLE.response primitive, a non-AP STA affiliated with the the receiving non-AP MLD or a non-AP EHT STA shall reply to the initiating AP MLD with an NSEP Priority Access Enable Response frame (9.6.35.6 (NSEP Priority Access Enable Response frame format(#1119)(#1488))). The receiving non-AP MLD or non-AP EHT STA should set the Status Code field to a value of SUCCESS unless the non-AP MLD or non-AP EHT STA is unable to support NSEP priority access. [#5869] If the non-AP MLD or non-AP EHT STA is unable to support NSEP priority access, the non-AP MLD or non-AP EHT STA shall set the Status Code field with a value of NSEP\_DENIED\_OTHER\_REASON as defined in 9.4.1.9 (Status Code field).

If the Status Code [#7544] in the MLME-NSEPPRIACCESSENABLE.response primitive is equal to SUCCESS, the receiving non-AP MLD or non-AP EHT STA shall change the state of the NSEP priority access to enabled[#5856] so that subsequently transmitted traffic receives NSEP priority access treatment using the procedure defined in [35.12.3 (NSEP priority access procedure)](#bookmark64).

If the Status Code [#7545] in the MLME-NSEPPRIACCESSENABLE.response primitive is equal to a value other than SUCCESS, the receiving non-AP MLD or non-AP EHT STA shall keep the torn down state of the NSEP priority access so it does[#5856] not apply NSEP priority access to subsequently transmitted traffic.

(#1127)Upon receipt of an NSEP Priority Access Teardown frame (9.6.35.7 (NSEP Priority Access Teardown frame details(#1127))), a non-AP MLD or a non-AP EHT STA with dot11EHTNSEPPriorityAccessActivated equal to true and with NSEP priority access enabled shall use the following procedure to tear down [#5856] NSEP priority access.

1. The receiving non-AP MLD or a non-AP EHT STA shall issue an MLME- NSEPPRIACCESSTEARDOWN.indication primitive.
2. The receiving non-AP MLD or non-AP EHT STA shall change the NSEP priority access state to torn down [#5856] so that subsequently transmitted traffic does not receive NSEP priority access treatment.

Straw Poll:

Do you support to incorporate the proposed draft text in this document 11-21/1238r3 with to the next revision of TGbe Draft 1.1, for addressing the following CIDs: 4173, 4174, 4175, 4436, 4437, 4438, 4439, 4440, 4441, 4442, 4443, 4444, 4445, 4446, 4447, 4448, 4494, 4495, 4496, 4497, 4498, 4499, 5228, 5619, 5620, 5622, 5623, 5625, 5626, 5856, 5858, 5861, 5862, 5863, 5864, 5865, 5866, 5867, 5869, 7529, 7538, 7544, 7545?

Result: Yes/No/Abstain