IEEE P802.11  
Wireless LANs

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| Proposed Comment Resolutions for NSEP Priority Access (CC36) | | | | |
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Abstract

This document proposes comment resolutions for the following 38 CIDs on NSEP Priority Access from the IEEE 802.11be D1.0 comment collection 36 (CC36):

4132, 5285, 6480, 6162, 7518, 6163, 6164, 5151, 6482, 7519, 7520, 7521, 6481, 4133, 5579, 7549, 7550, 5587, 5868, 5859, 7548, 4299, 4007, 4153, 5592, 6663, 6622, 6239, 7347, 7355, 5593, 7525, 4820, 7528, 5595, 7055, 7709, 5597, 7356, 5598

The proposed resolutions shown below use Draft 1.1 as a basis.

Revisions:

- Rev 0: Initial version of the document.

- Rev 1: Adapted to use Draft 1.1 as a basis

- Rev 2: Updated based on off-line comments and incorporated an additional CID (Changes marked)

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 Number** | **Page/**  **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 4132 | Alfred Asterjadhi | 4.5.11a | 49.04 | References to the normative behavior subclauses are missing. Please add references to respective normative behaviors for 1) setup/authentication, 2) priority access, and 3) tear down. Also need to clarify that the 1) and 3) are performed at MLD level, while 2) is performed at link level. | As in comment. | Revised.  References were added. Changes previously incorporated into Draft 1.1 clarify that setup/ teardown are MLD level. Added sentence to clarify that priority is link level.  Editor: Please reflect the changes in Clause 4.5.11a labelled as #6162 and #6164. |
| 5285 | James Yee | 4.5.11a | 49.04 | Description of a particular application of NSEP, especially for a paticular country, is informative and best located in an informative annex. NOTE 1 and NOTE 2 overlap in purpose and should be combined for clarity, though they also make it clear that the particular service that determine the need of NSEP is outside the scope of this standard. | As suggested and Move the 1st paragraph to an Annex. | Revised  Description provides reader context in this section, which is also informative. Modified first footnote.  Notes were removed in response to CC34 CIDs ([document 510r5](https://mentor.ieee.org/802.11/dcn/21/11-21-0510-05-00be-cr-for-clauses-3-1-and-4-5-11a-on-nsep.docx), approved in Motion 214)  Editor: Please  reflect the changes in Clause 4.5.11a labelled as #5285 |
| 6480 | Osama Aboulmagd | 4.5.11a | 49.11 | Is the use of the word "user" equivalent to the word "STA"? | clarify | Revised  Editor: Please  reflect the changes in Clause 4.5.11a labelled as #6480 |
| 6162 | Michael Montemurro | 4.5.11a | 49.18 | The text describing AP behavior is cumbersome for a Clause 4 description. | change: "APs that have NSEP priority access activated advertise this capability in Beacon and Probe Response frames. Non-AP STAs that intend to use NSEP priority access query APs that advertise NSEP priority access to gain additional details prior to association. During association, APs verify the authority of non-AP STAs to use NSEP priority access. This could be accomplished using a subscription service provider's authorization infrastructure via an SSPN interface. The AP might store the results of this authorization process locally to enable subsequent verification. AP might also use this information to confirm authority during (re)association." to "APs advertise this capability and authorize Non-AP STAs to use NSEP priority access. APs authorize non-AP STAs to use NSEP priority access based on locally available information or through a service provider's authorization infrastructure via an SSPN interface. The AP might cache results the authorization information locally to enable subsequent verification and use it to confirm authority during (re)association." | Accepted  The cited text was modified in response to a CR (510/r5, Motion 214) during CC34 and the proposed change was previously incorporated into Draft 1.1. No further change is required. |
| 7518 | Tomoko Adachi | 4.5.11a | 49.19 | "Non-AP STAs that intend to use NSEP priority access query APs that advertise NSEP priority access to gain additional details prior to association." Which frame is used? A Probe Request frame? The frame should be clarified for better understanding. | As in comment. | Revised  The cited text was modified in response to CR during CC34 and the sentence was deleted in Draft 1.1. No further change is required. |
| 6163 | Michael Montemurro | 4.5.11a | 49.28 | The note is not required and the text can be clearer. | Change: "NSEP priority access operates in an on-demand fashion. The STA invokes NSEP priority access when instructed to do so by an authorized user or a managed service provider who detects the need for priority. NOTE 1--Detecting the need for priority is outside the scope of this standard." to "A STA invokes NSEP priority access on-demand when instructed to do so by an authorized user or a managed service provider who detects the need for priority. Detecting the need for NSEP priority access for a STA is outside the scope of this standard." | Accepted  The cited text was modified in response to a CR (510/r5, Motion 214) during CC34 and the proposed change was previously incorporated into Draft 1.1. No further change is required. |
| 6164 | Michael Montemurro | 4.5.11a | 49.32 | This text is cumbersome and could be improved. It is not consistent with other clause 4 text. | Replace "The non-AP STA requests NSEP priority access by sending a request to the AP. The AP confirms the authority of the non-AP STA to use NSEP priority access, e.g., using the locally stored verification information or reaching out to NSEP service provider via the SSPN interface, and sends a response to the requesting non-AP STA. Alternatively, the AP can enable NSEP priority access by sending an unsolicited request to a non-AP STA, and the non-AP STA confirms the request by sending a response. While NSEP priority access is enabled, all traffic to and from the non-AP is provided with preferential treatment. Either the AP or the non-AP STA can disable NSEP priority access by sending another request. NOTE 2--The means by which the AP determines the need for priority is outside the scope of this standard." with "Non-AP STAs enable NSEP priority access by sending a request to an AP that advertises the capability. The AP authorizes the non-AP STA using locally stored verification information or information received from an NSEP service provider via the SSPN interface and sends a response to the non-AP STA. Alternatively, the AP can enable NSEP priority access by sending an unsolicited request to an authorized non-AP STA, and the non-AP STA confirms the request by sending a response.  While NSEP priority access is enabled, all traffic to and from the non-AP is provided with NSEP priority access treatment. Either the AP or the non-AP STA can disable NSEP priority access by a request to terminate priority access." | Accepted  The cited text was modified in response to a CR (510/r5, Motion 214) during CC34 and the proposed change was previously incorporated into Draft 1.1. No further change is required. |
| 5151 | GEORGE CHERIAN | 4.5.11a | 49.42 | "NOTE 2--The means by which the AP determines the need for priority... "Remove this note, since it could be misleading since the part that client invoking priority service is part of the spec | As in the comment | Accepted  The cited text was modified in response to CR during CC34 and the note was deleted in Draft 1.1. No further change is required. |
| 6482 | Osama Aboulmagd | 4.5.11a | 49.42 | Note 2: isn't true that the non-AP STA indicates to the AP the need for priority? Note 2 seems out of place | Delete Note 2 | Accepted  The cited text was modified in response to CR during CC34 and the note was deleted in Draft 1.1. No further change is required. |
| 7519 | Tomoko Adachi | 4.5.11a | 49.33 | "The non-AP STA requests NSEP priority access by sending a request to the AP." Which frame is used? This should be done using an NSEP Priority Access Enable Request frame. The frame should be clarified for better understanding. | As in comment. | Revised.  Editor: Please reflect the changes in Clause 4.5.11a labelled as #7519. |
| 7520 | Tomoko Adachi | 4.5.11a | 49.35 | he AP confirms the authority of the non-AP STA to use NSEP priority access, ... and sends a response to the requesting non-AP STA." Which frame is used? This response should be an NSEP Priority Access Enable Response frame. The frame should be clarified for better understanding. | As in comment. | Revised.  Editor: Please reflect the changes in Clause 4.5.11a labelled as #7520. |
| 7521 | Tomoko Adachi | 4.5.11a | 49.37 | "Alternatively, the AP can enable NSEP priority access by sending an unsolicited request to a non-AP STA, and the non-AP STA confirms the request by sending a response." What are these frames? They should be NSEP Priority Access Enable Request and Response frames. The frames should be clarified for better understanding. | As in comment. | Revised.  Editor: Please reflect the changes in Clause 4.5.11a labelled as #7521. |
| 6481 | Osama Aboulmagd | 4.5.11a | 49.39 | What does "preferential treatment" mean? Very fuzzy term | Clarify | Accepted  The cited text was modified in response to a CR (510/r5, Motion 214) (during CC34 and the proposed change was previously incorporated into Draft 1.1. No further change is required. |
| 4133 | Alfred Asterjadhi | 4.5.11a | 49.40 | This last sentence is ambiguous. It is not disablement and it is not achieved by sending a request. It is a tear down which is achieved by sending an NSEP teardown. Please clarify accordingly. | As in comment. | Revised.  Resolved in conjunction with 5579  Editor: Please reflect the changes in Clause 4.5.11a labelled as #4133. |
| 5579 | John Wullert | 4.5.11a | 49.40 | The description of the action to disable NSEP priority access uses the word "request", but the actual behavior is a non-optional teardown | Revise sentence to reflect that the disable operation is a tear-down. | Revised.  Resolved in conjunction with #4133.  Editor: Please reflect the changes in Clause 4.5.11a labelled as #4133. |
| 5587 | John Wullert | 6.3.126 | 70.47 | Primitives as defined are not consistent with the descriptions in section 35.11.1 (They use MLME-NSEPPRIACCESS rather than NSEPPRIACCESSENABLE and do not include a separate set of primitives to handle the NSEP priority access teardown | Modify existing primitives to be NSEPPRIACCESSENABLE and add NSEPPRIACCESSTEARDOWN .request and .indication primitives | Revised  Resolved in conjunction with #5868 and #7548  Editor: Please  reflect the changes in Clause 6.3.126 labelled as #5587 |
| 5868 | Lei Wang | 35.11.2.2.3.1 | 309.05 | The primitive, MLME-NSEPPRIACCESSTEARDOWN, is not defined. | Please define the primitive, MLME-NSEPPRIACCESSTEARDOWN, in Section 6. | Revised  Resolved in conjunction with #5587 and #7548  Editor: Please  reflect the changes in Clause 6.3.126 labelled as #5587 |
| 5859 | Lei Wang | 306.12 | 35.11.2.2.1 | In Figure 35-19, the SME primitives are not defined in Section 6.3.126 NSEP Priority Access, where the primitives for NSEP have different names. | Please make sure the NSEP related primitives are consistently named throughout the spec. | Revised  Resolved in conjunction with #5587 and #7548 – names here are now aligned with figure  Editor: Please  reflect the changes in Clause 6.3.126 labelled as #5587 |
| 7548 | Tomoko Adachi | 35.11 | 0.00 | The names of the MLME SAP primitives for the NSEP priority access here in the subclause do not match those in 6.3.126. | Align the names of the primitives with 6.3.126. | Revised  Resolved in conjunction with #5587 and #5868  Editor: Please  reflect the changes in Clause 6.3.126 labelled as #5587 |
| 7549 | Tomoko Adachi | 6.3.126.2.3 | 68.26 | "This primitive is generated by the SME when a STA wishes a change (e.g., enable or disable) to the NSEP priority access from a peer STA." "wishes"? "intends to" seems to be better. | Change it to read "This primitive is generated by the SME when a STA intends to enable or diable the NSEP priority access from a peer STA." | Revised  Agree in principle  Editor: Please  reflect the changes in Clause 6.3.126.2.3 labelled as #7549 |
| 7550 | Tomoko Adachi | 6.3.126.2.4 | 68.33 | "This primitive initiates an NSEP priority access procedure. If a response is received from the peer STA, the MLME subsequently issues an MLME-NSEPPRIACCESS.confirm primitive that reflects the results." This primitive should invoke the transmission of a NSEP Priority Access Request frame. And the response part is enough to be in 6.3.126.3.3. | Change it to read "This primitive initiates transmission of an NSEP Priority Access Request frame to the peer MAC entity." | Accepted  Editor: Please reflect the changes in Clause 6.3.126.2 labelled as #7550 |
| 4299 | Alfred Asterjadhi | 9.4.1.9 | 0.00 | <ANA> requests are not TBD. Please change font to black for these. Please apply throughout | As in comment. | Accepted  Editor: Please change all instances of <ANA> in the document to black and remove underlining where present or assign the number. |
| 4007 | Abhishek Patil | 9.4.1.11 | 111.10 | Delete the entry for "NSEP Priority Service" since it is under "Protected EHT" | As in comment | Accepted  Addressed in conjunction with #4007, #4153, #5592, #6663  Editor: Please  reflect the changes in Clause 9.4.1.11 labelled as #4007 |
| 4153 | Alfred Asterjadhi | 9.4.1.11 | 111.15 | Ghost entry. We don't have this category anymore. Remove the entry for NSEP since it is part of the rows below. | As in comment. | Accepted  Addressed in conjunction with #4007, #4153,#5592, 6663  Editor: Please  reflect the changes in Clause 9.4.1.11 labelled as #4007 |
| 5592 | John Wullert | 9.4.1.11 | 111.15 | Given that NSEP priority access elements are now communicated via EHT action frames, the NSEP Priority Service row in this table can be removed. (Descriptions of NSEP priority elements are covered by last row Protected EHT) | As in comment | Accepted  Addressed in conjunction with #4007, #4153, #5592, #6663  Editor: Please  reflect the changes in Clause 9.4.2.295c.2 labelled as #4007 |
| 6663 | Raja Banerjea | 9.4.1.11 | 111.15 | NSEP priority service is defined as part of Protected EHT. Remove separate Category value for NSEP | Remove lines 15-23 | Accepted  Addressed in conjunction with #4007, #4153, #5592, #6663  Editor: Please  reflect the changes in Clause 9.4.2.295c.2 labelled as #4007 |
| 6622 | Po-Kai Huang | 9.4.2.295c.2 | 136.51 | if NSEP can only be used by MLD, then the capabilty needs to be moved to MLD capability. | if NSEP can only be used by MLD, then the capabilty needs to be moved to MLD capability. | Rejected.  NSEP priority access is EHT feature that can be used by both MLDs and stand-alone EHT STAs. Therefore “NSEP Priority Access Supported” capability must be included in EHT MAC Capabilities Information field. |
| 6239 | Ming Gan | 9.4.2.295c.2 | 137.10 | The encoding of NSEP Priority Access Supported subfield is weird, please rephrase it as "whether support this operation or not" | as in the comment | Revised  Editor: Please  reflect the changes in Clause 9.4.2.295c.2 labelled as #6329 |
| 7347 | Stephen McCann | 4.5.11a | 49.01 | The NSEP feature is independent of the rest of EHT and could be moved from the 11be draft into REVme. This would then provide the ability to use NSEP with existing technology such as 11ax. | Remove NSEP from the draft (clauses 4.5.11a, 6.3.126, 9.6.35, 35.11 and MIB definitions in C.3), placing them in a submission for REVme. | Rejected:  As defined, NSEP priority access is an EHT feature (including negotiation at the MLD level). Therefore it needs to be in IEEE 802.11be amendment |
| 7355 | Stephen McCann | 9.4.2.295c.2 | 137.10 | The MIB variable "dot11EHTNSEPPriorityAccessActivated" does not need the letters "EHT" within it, as it is not dependent on any particular PHY. These letters are redundant. | Change "dot11EHTNSEPPriorityAccessActivated" to "dot11NSEPPriorityAccessActivated" throughout the draft. | Rejected:  As defined, NSEP priority access is an EHT feature. Inclusion of EHT in MIB variable name reflects this clearly. |
| 5593 | John Wullert | 9.4.1.11 | 111.15 | During earlier comment collection, there were suggestions to make NSEP priority access a feature separate from EHT. The resolution discussion suggested that the issue could be handled in REVme. Controlling NSEP priority access via EHT action frames seems likely to complicate that activity. Suggest that NSEP priority access be handled as QoS Action Frames. | As in comment | Rejected:  As defined, NSEP priority access is an EHT feature (including negotiation at the MLD level). Therefore it needs to be in IEEE 802.11be amendment |
| 7525 | Tomoko Adachi | 9.4.2.295c.2 | 137.11 | "Set to 1 if dot11EHTNSEPPriorityAccessActivated is true ..." I think dot11EHTOptionImplemented should be also true. | Change it to read "Set to 1 if dot11EHTOptionImplemented and dot11EHTNSEPPriorityAccessActivated are true ...". | Accepted  Editor: Please  reflect the changes in Clause 9.4.2.295c.2 labelled as #7525 |
| 7528 | Tomoko Adachi | 35.11.2.1 | 0.00 | "An MLD or non-AP EHT STA shall only send NSEP Priority Access Enable Request and NSEP Priority Access Teardown frames to an associated peer MLD or non-AP EHT STA if both are management frame protection capable (see 12.2.7 (Requirements for management frame protection) and 12.6 (RSNA security association management))." Then the AP and the STA that set the NSEP Prority Access Supported subfield should set the field according to those MIB attributes, too. | Revisit the setting condition of NSEP Priority Access Supported subfield in 9.4.2.295c.2. | Revised  Editor: Please  reflect the changes in Clause 9.4.2.295c.2 labelled as #7528 |
| 5595 | John Wullert | 9.6.35.6 | 163.18 | Typo: "request that NSEP priority access has enabled" should be "request that NSEP priority access be enabled" | As in comment | Revised.  Addressed in conjunction with #7055, #7709  Editor: Please  reflect the changes in Clause 35.12.1 labelled as #5595 |
| 7055 | Sigurd Schelstraete | 9.6.35.5 | 163.18 | Unclear language: "to request that NSEP priority access has enabled" | improve language | Revised.  Addressed in conjunction with #5595, #7709  Editor: Please  reflect the changes in Clause 35.12.1 labelled as #5595 |
| 7709 | Xiaofei Wang | 9.6.35.5 | 164.18 | the sentence is not written well. Suggest "that NSEP priority access has enabled" to "NSEP priority access to be enabled". | as in comment | Revised.  Addressed in conjunction with #5595, #7055  Editor: Please  reflect the changes in Clause 35.12.1 labelled as #5595 |
| 4820 | Dibakar Das | 9.6.35.5 | 163.30 | "Protected EHT " -> "Protected EHT Action" | As in comment. | Accepted  Editor: Please  reflect the changes in Clause 9.4.2.295c.2 labelled as #4820 |
| 5597 | John Wullert | 9.6.35.5 | 163.46 | Need to clarify that EDCA Parameter Set element is optional - it is only sent by the AP MLD, not by the non-AP MLD | Expand description | Revised.  Addressed in conjunction with #7356  Editor: Please  reflect the changes in Clause 35.12.1 labelled as #5597 |
| 7356 | Stephen McCann | 9.6.35.5 | 163.33 | When a non-AP STA transmits an NSEP Priority Access Enable Request frame, the frame should not contain an EDCA Parameter Set element. Only an AP can assign EDCA Parameters. | Change the "EDCA Parameter Set element" in Table 9-526t to optional. Add an additional final sentence to the paragraph at P163L21: "The EDCA Parameter Set element is only transmitted by an AP". | Revised.  Addressed in conjunction with #5597  Editor: Please  reflect the changes in Clause 35.12.1 labelled as #5597 |
| 5598 | John Wullert | 9.6.35.6 | 163.19 | Need to clarify that EDCA Parameter Set element is optional - it is only sent by the AP MLD, not by the non-AP MLD. Given that it is optional, should move it to the end, after the status code. | Expand description and reorder elements | Accepted  Editor: Please  reflect the changes in Clause 35.12.1 labelled as #5598 |

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**\*\*\*\* Editor: Please update the following Clauses as revised below: \*\*\*\***

**Source text for is document 1.1**

**4.5.11a NSEP priority access**

Existing national security and emergency preparedness (NSEP) communications services[[1]](#footnote-1) in multiple countries provide priority for voice and data exchanges on public networks. NSEP priority access is intended to provide capabilities to support such priority services on IEEE 802.11-based networks.[[2]](#footnote-2)

NSEP priority access provides prioritized access to system resources for authorized ~~users~~ devices [#6480] to increase their probability of successful communication during periods of network congestion. Priority access involves treating the NSEP traffic with a higher priority, as described in 35.11.3 (NSEP priority access procedure), in obtaining channel access and in allocation of network resources. The service is only available to designated, authorized devices who normally represent a small fraction of the overall number of devices operating in the area.

AP MLDs that have NSEP priority access activated advertise this capability in Beacon and Probe Response frames. AP MLDs authorize non-AP MLDs to use NSEP priority access based on locally available information or through a service provider's authorization infrastructure via an SSPN interface (see 11.22.5 (Interworking procedures: interactions with SSPN)).[#4132] The AP MLD may cache authorization information locally to enable subsequent verification and use it to confirm authority during (re)association.

Note: Support for NSEP priority access in case of Non-AP EHT STAs is pending Task Group consensus on handling of single-link non-AP STAs.

An AP MLD or a non-AP MLD invokes NSEP priority access on-demand when instructed to do so by a higher layer function, such as an authorized user or a managed service provider who detects the need for priority. The process for detecting the need for NSEP priority access by the higher layer function is outside the scope of this standard.

Non-AP MLDs enable NSEP priority access by sending ~~a request~~ an NSEP Priority Access Enable Request frame [#7519] (see 9.6.35.5 (NSEP Priority Access Enable Request frame format)) [#4132] to an associated AP MLD that advertises the capability. A non-AP MLD can send the request on any available enabled link between the non-AP MLD and the AP MLD.  ~~and, if~~ If the non-AP MLD is authorized, NSEP priority access will be enabled on all enabled links within the MLD. The AP MLD authorizes the non-AP MLD using locally stored verification information or information received from an NSEP service provider via the SSPN interface (see 11.22.5 (Interworking procedures: interactions with SSPN)) [#4132] and sends ~~a response~~ an NSEP Priority Access Enable Response frame [#7520] (see 9.6.35.6 (NSEP Priority Access Enable Response format)) [#4132] to the non-AP MLD. Alternatively, the AP MLD can enable NSEP priority access by sending an unsolicited ~~request~~ NSEP Priority Access Enable Request frame [#7521] (see 9.6.35.5 (NSEP Priority Access Enable Request format)) [#4132] to a non-AP MLD, and the non-AP MLD confirms the request by sending an NSEP Priority Access Enable Response frame [#7520]. An AP MLD can send the request on any available enabled link between the AP MLD and non-AP MLD and NSEP priority access will be enabled on all links within the MLD.

While NSEP priority access is enabled, all traffic to and from the non-AP MLD is treated with a higher priority, as described in 35.11.3 (NSEP priority access procedure). NSEP priority access is applied individually for each link within an MLD.[#4132] Either the AP MLD or the non-AP MLD can tear down NSEP priority access by transmitting an NSEP Priority Access Teardown frame [#4133] (see 9.6.35.7 (NSEP Priority Access Teardown frame details)). [#4132]

* + 1. **NSEP priority access**
       1. **Introduction**

The following primitives support NSEP priority access operation (see 35.12 (NSEP priority access)).

* + - 1. **MLME-NSEPPRIACCESSENABLE.request** **[#5587]**
         1. **Function**

This primitive initiates a request to a peer MAC entity to enable ~~requests a chang~~e ~~to~~ NSEP priority access ~~from a peer MAC entity~~. **[#5587]**

* + - * 1. **Semantics of the service primitive**

The primitive parameters are as follows:

MLME-NSEPPRIACCESSENABLE.request (**[#5587]**

PeerSTAAddress, Dialog Token

EDCAParameterSet

~~RequestType~~**[#5587]**

)

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity with which the NSEP priority access procedure is performed. |
| Dialog Token | Integer | 0–255 | The dialog token to identify the NSEP priority access procedure. |
| EDCAParameterSet | EDCA Parameter Set element | As defined in 9.4.2.28 | Specifies service parameters for the NSEP EDCA Parameter Set. **[#5587]** |
| ~~RequestType~~ | ~~NSEP Request Type field~~ | ~~As defined in~~  ~~9.6.35.5 (NSEP Priority Access Enable Request frame format(#1119)(#148 8))~~ | ~~Specify the NSEP request type.~~ **[#5587]** |

* + - * 1. **When generated**

[#7549] This primitive is generated by the SME to send a request to a peer MAC entity to enable NSEP priority access. ~~This primitive is generated by the SME when a STA wishes a change (e.g., enable or disable) to the NSEP priority access from a peer STA.~~

* + - * 1. **Effect of receipt**

This primitive initiates transmission of an NSEP Priority Access Request frame to the peer MAC entity.~~This primitive initiates an NSEP Priority Access procedure. If a response is received from the peer STA, the MLME subsequently issues an MLME-NSEPPRIACCESS.confirm primitive that reflects the results.~~ [#7550]

* + - 1. **MLME-NSEPPRIACCESSENABLE.confirm** **[#5587]**
         1. **Function**

This primitive reports the ~~results of an~~ response to a request to enable NSEP priority access ~~procedure~~ with a peer MAC entity. **[#5587]**

* + - * 1. **Semantics of the service primitive**

The primitive parameters are as follows:

MLME-NSEPPRIACCESSENABLE.confirm(**[#5587]**

PeerSTAAddress,

Dialog Token,

Status Code

EDCAParameterSet[#5587]

)

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity with which the NSEP priority access procedure is performed. |
| Dialog Token | Integer | 0–255 | The dialog token to identify the NSEP priority access procedure. |
| Status Code | As defined in frame format | As defined in 9.4.1.9 (Status Code field) | Indicates the status of the request procedure |
| EDCAParameterSet | EDCA Parameter Set element | As defined in 9.4.2.28 | Specifies service parameters for the NSEP EDCA Parameter Set. [#5587] |

* + - * 1. **When generated**

This primitive is generated by the MLME as a result of the receipt of an NSEP Priority Access Enable [#5587] Response frame from the peer MAC entity.

* + - * 1. **Effect of receipt**

The SME is notified of the results of the NSEP Priority Access Enable request [#5587]procedure.

* + - 1. **MLME-NSEPPRIACCESSENABLE.indication**  **[#5587]**
         1. **Function**

This primitive indicates that ~~is requesting a change to~~ a request to enable NSEP priority access has been received from a peer MAC entity ~~from the local MAC entity.~~ **[#5587]**

* + - * 1. **Semantics of the service primitive**

The primitive parameters are as follows:

MLME-NSEPPRIACCESSENABLE.indication(**[#5587]**

PeerSTAAddress, Dialog Token, EDCAParameterSet

~~RequestType~~

) **[#5587]**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity with which the NSEP priority access procedure is performed. |
| Dialog Token | Integer | 0–255 | The dialog token to identify the NSEP priority access procedure. |
| EDCAParameterSet | EDCA Parameter Set element | As defined in 9.4.2.28 | Specifies service parameters for the NSEP EDCA Parameter Set. **[#5587]** |
| ~~RequestType~~ | ~~NSEP Request Type field~~ | ~~As defined in~~  ~~9.6.35.5 (NSEP Priority Access Enable Request frame format(#1119)(#148 8))~~ | ~~Specify the NSEP request type.~~ **[#5587]** |

* + - * 1. **When generated**

This primitive is generated by the MLME as a result of the receipt of an NSEP Priority Access Enable Request frame from a peer MAC entity. **[#5587]**

* + - * 1. **Effect of receipt**

The SME is notified of the receipt of the NSEP priority access request.

* + - 1. **MLME-NSEPPRIACCESSENABLE.response [#5587]**
         1. **Function**

This primitive is generated by the MLME to send a response to a peer MAC entity that ~~requested~~ sent a request to enable ~~an~~ NSEP priority access ~~procedure~~. **[#5587]**

* + - * 1. **Semantics of the service primitive**

The primitive parameters are as follows: MLME-NSEPPRIACCESSENABLE.confirm(**[#5587]**

PeerSTAAddress,

Dialog Token

Status Code

EDCAParameterSet**[#5587]**

)

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity with which the NSEP priority access procedure is performed. |
| Dialog Token | Integer | 0–255 | The dialog token to identify the NSEP priority access procedure. |
| Status Code | As defined in frame format | As defined in 9.4.1.9 (Status Code field) | Indicates the status of the request procedure |
| EDCAParameterSet | EDCA Parameter Set element | As defined in 9.4.2.28 | Specifies service parameters for the NSEP EDCA Parameter Set. [#5587] |

* + - * 1. **When generated**

This primitive is generated by the ~~MLME~~SME as a response to an MLME-NSEPPRIACCESSENABLE.indication primitive. **[#5578]**

* + - * 1. **Effect of receipt**

This primitive initiates transmission of an NSEP Priority Access Enable Response frame to the peer MAC entity that requested the change to NSEP priority access.

* + - 1. **[#5587] MLME-NSEPPRIACCESSTEARDOWN.request** 
         1. **Function**

This primitive instructs a peer MAC entity to tear down NSEP priority access.

* + - * 1. **Semantics of the service primitive**

The primitive parameters are as follows:

MLME-NSEPPRIACCESSTEARDOWN.request(

PeerSTAAddress

)

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity with which the NSEP priority access procedure is performed. |

* + - * 1. **When generated**

This primitive is generated by the SME when a STA intends a tear down NSEP priority access.

* + - * 1. **Effect of receipt**

This primitive initiates an NSEP priority access teardown procedure.

* + - 1. **MLME-NSEPPRIACCESSENABLETEARDOWN.indication** 
         1. **Function**

This primitive indicates that a peer MAC entity is tearing down NSEP priority access.

* + - * 1. **Semantics of the service primitive**

The primitive parameters are as follows: MLME-NSEPPRIACCESS.confirm(

PeerSTAAddress

)

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the address of the peer MAC entity with which the NSEP priority access teardown is received. |

* + - * 1. **When generated**

This primitive is generated by the MLME as a result of the receipt of an NSEP Priority Access Teardown frame from a peer MAC entity.

* + - * 1. **Effect of receipt**

The SME is notified of the results of the NSEP priority access procedure.

**9.4.1.11 Action field**

**Table 9-51—Category values**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Meaning** | **See subclause** | **Robust** | **Group addressed privacy** |
| ~~<ANA>~~ | ~~NSEP Priority Service~~ | [~~(NSEP Priority Access Enable Request frame~~](#bookmark160)[~~format(#1119)(#1488))~~](#bookmark160)~~,~~ [~~(NSEP Priority Access Enable Response frame~~](#bookmark162)[~~format(#1119)(#1488))~~](#bookmark162)~~,~~ [~~(NSEP Priority Access Teardown frame~~](#bookmark164)[~~details(#1127))~~](#bookmark164)[  [ #4007] | ~~Yes~~ | ~~No~~ |
| <ANA>[4299] | EHT | [9.6.34 (EHT Action frame](#bookmark149) [details(#1119)(#1488))](#bookmark149) | No | No |
| <ANA>[4299] | Protected EHT | [9.6.35 (Protected EHT Action](#bookmark154) [frame details)](#bookmark154) | Yes | No |

**9.4.2.295c.2 EHT MAC Capabilities Information field(#1126)**

**Table 9-322aq—Subfields of the EHT MAC Capabilities Information field**

|  |  |  |
| --- | --- | --- |
| **Subfield** | **Definition** | **Encoding** |
| NSEP Priority Access Supported | Indicates ~~support for~~ whether or not NSEP priority access is supported. [#6239] | Set to 1 if dot11EHTOptionImplemented , dot11RSNAActivated, dot11RSNAProtectedManagementFramesActivated and dot11EHTNSEPPriorityAc- cessActivated ~~is~~ are true (see 35.12 (NSEP priority access)). [#7525, #7528]  Set to 0 otherwise. |

* + - 1. **NSEP Priority Access Enable Request frame format(#1119)(#1488)**

The NSEP Priority Access Enable Request frame is an Action frame of category Protected EHT. It is trans- mitted by a requesting MLD or non-AP EHT STA to request that NSEP priority access ~~has~~ be [#5595] enabled. The Action field of the NSEP Priority Access Enable Request frame contains the information shown in [Table 9-](#bookmark161) [526t (NSEP Priority Access Enable Request frame Action field format)](#bookmark161).

**Table 9-526t—NSEP Priority Access Enable Request frame Action field format**

|  |  |
| --- | --- |
| **Order** | **Meaning** |
| 1 | Category |
| 2 | Protected EHT Action [#4820] |
| 3 | Dialog Token |
| 4 | EDCA Parameter Set element(#1709) |

The Category field is defined in [9.4.1.11 (Action field)](#bookmark58).

The Protected EHT Action field is defined in [9.6.35.1 (Protected EHT Action field)](#bookmark155).

The Dialog Token field is defined in 9.4.1.12 (Dialog Token field) and set by the requesting MLD or non- AP EHT STA.

(#1709)The EDCA Parameter Set element is defined in 9.4.2.28 (EDCA Parameter Set element). The EDCA parameter set element is included in NSEP Priority Access Enable Request frames sent by AP MLDs. The EDCA parameter set element is omitted from NSEP Priority Access Enable Request frames sent by non-AP MLDs. [#5597]

* + - 1. **NSEP Priority Access Enable Response frame format(#1119)(#1488)**

The NSEP Priority Access Enable Response frame is an Action frame of category Protected EHT. It is trans- mitted in response to an NSEP Priority Access Enable Request frame. The Action field of the NSEP Priority Access Enable Response frame contains the information shown in [Table 9-526u (NSEP Priority Access](#bookmark163) [Enable Response frame Action field format)](#bookmark163).

**Table 9-526u—NSEP Priority Access Enable Response frame Action field format**

|  |  |
| --- | --- |
| **Order** | **Meaning** |
| 1 | Category |
| 2 | Protected EHT |
| 3 | Dialog Token |
| 4 | Status Code ~~EDCA Parameter Set element(#1709~~) [#5598] |
| 5 | EDCA Parameter Set element ~~status Code~~) [#5598] |

The Category field is defined in [9.4.1.11 (Action field)](#bookmark58).

The Protected EHT Action field is defined in [9.6.35.1 (Protected EHT Action field)](#bookmark155).

The Dialog Token field value is copied from the Dialog Token field in the corresponding NSEP Priority Access Enable Request frame.

(#1709)The EDCA Parameter Set element is defined in 9.4.2.28 (EDCA Parameter Set element). The EDCA parameter set element is included in NSEP Priority Access Enable Response frames sent by AP MLDs. The EDCA parameter set element is omitted from NSEP Priority Access Enable Response frames sent by non-AP MLDs. [#5598]

The Status Code field values are defined in [Table 9-50 (Status codes)](#bookmark57).

* + - 1. **NSEP Priority Access Teardown frame details(#1127)**

The NSEP Priority Access Teardown frame is an Action frame of category Protected EHT. It is transmitted by an MLD or non-AP EHT STA to disable NSEP priority access. The Action field of the NSEP Priority Access Teardown frame contains the information shown in [Table 9-526v (NSEP Priority Access Teardown](#bookmark165) [Action field format)](#bookmark165).

**Table 9-526v—NSEP Priority Access Teardown Action field format**

|  |  |
| --- | --- |
| **Order** | **Meaning** |
| 1 | Category |
| 2 | Protected EHT |

The Category field is defined in [9.4.1.11 (Action field)](#bookmark58).

The Protected EHT Action field is defined in [9.6.35.1 (Protected EHT Action field)](#bookmark155).

Straw Poll:

Do you support incorporating the changes to the TGbe draft contained document 802.11-21/01197r1 that address the following CIDs:

4132, 5285, 6480, 6162, 7518, 6163, 6164, 5151, 6482, 7519, 7520, 7521, 6481, 4133, 5579, 7549, 7550, 5587, 5868, 5859, 7548, 4299, 4007, 4153, 5592, 6663, 6239, 7355, 5593, 7525, 4820, 5595, 7055, 7709, 5597, 7356, 5598

1. For example, NSEP Services in the United States, including the Government Emergency Telecommunications Service and the Wireless Priority Service, run on commercial ~~operator~~ cellular networks ~~and are managed by the Emergency Communications Division of the Cybersecurity and Infrastructure Security Agency within the Department of Homeland Security~~. [#5285] [↑](#footnote-ref-1)
2. Priority access capabilities to support these services in other types of networks are defined in appropriate international standards, (e.g., Multimedia Priority Service (MPS) in 3GPP). [↑](#footnote-ref-2)