IEEE P802.11
Wireless LANs

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| Proposed Comment Resolution (CC34) and Draft Text for NSEP Priority Access  |
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Rev1: Addresses offline comments

Rev2: Addresses comments received during presentation and via offline

**Abstract**

This document proposes comment resolutions for the following two (02) CIDs on NSEP Priority Access from the IEEE80.11be D0.3 comment collection 34 (CC34) and thereby addresses the TBDs in Clause 35.10.3 in Draft 0.3

1709, 2171

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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| 1709 | GEORGE CHERIAN | 35.10.3 | 151.29 | Define the TBD procedure. Use AC\_VO for NSEP traffic. | As in the comment | **Revised.****Addressed in clause 35.10.3 and others as described below.****Editor: Please reflect the changes as proposed in this document.**  |
| 2171 | Laurent Cariou | 35.10.3 | 0.00 | NSEP priority access has to be defined. Simplest mechanism seems to be that the AP (MLD) sends the new EDCA parameters in the NSEP setup to the STA (non-AP MLD), and the STA is allowed to use these new parameters instead of the ones that are advertized in beacons or were previously sent in association response while the NSEP mode is accepted and active. | as in comment | **Revised.****Addressed in clause 35.10.3 and others as described below.****Editor: Please reflect the changes as proposed in this document.**  |

**35.10.3 NSEP priority access procedure**

***TGbe Editor: Please modify the text as shown.***

If the negotiation to enable NSEP priority access between an AP MLD and a non-AP MLD or non-AP EHT STA is successful, then both the AP MLD and the non-AP MLD or non-AP EHT STA shall apply NSEP priority access to their respective NSEP traffic using ~~a TBD~~ the procedure described below. If an MLD or non-AP EHT STA successfully enabled NSEP priority access, then the AP MLD or non-AP MLD shall perform the procedure described below with each of its affiliated STAs.

The AP MLD shall ensure that only authorized non-AP MLDs or non-AP EHT STAs can invoke NSEP priority access. An AP MLD ~~STA~~ may apply NSEP priority access to NSEP traffic using the ~~same~~ ~~TBD~~ procedure described below prior to completion of the negotiation to enable NSEP priority access.

An NSEP AP MLD is an AP MLD where the affiliated APs have a value of true for dot11NSEPPriorityAccessActivated.

An NSEP non-AP MLD is a non-AP MLD where the affiliated non-AP STAs have a value of true for dot11NSEPPriorityAccessActivated.

An NSEP non-AP EHT STA is a non-AP EHT STA, which has a value of true for dot11NSEPPriorityAccessActivated.

**35.10.3.1 EDCA Operation using NSEP EDCA parameters**

As part of the NSEP priority access procedure, a STA affiliated with an NSEP MLD or an NSEP non-AP EHT STA shall manage its EDCA Parameter Sets as follows:

* During the process of enabling NSEP priority access, the STA shall update its CWmin[AC], CWmax[AC], AIFSN[AC] and TXOP[AC] state variables to the values contained in dot11NSEPEDCATable (the values in dot11NSEPEDCATable shall be initialized to the default EDCA parameter values found in (see Table 9-137 (Default EDCA Parameter Set element parameter values if dot11OCBActivated is false)).
	+ The AP MLD may provide updated NSEP EDCA parameters to a non-AP MLD or to a non-AP EHT STA using the NSEP Priority Access action frames (9.6.36.X1 NSEP Priority Access Enable Request frame details, 9.6.36.X2 NSEP Priority Access Enable Response frame details).
* During the process of disabling NSEP priority access, an AP affiliated with an NSEP MLD or an NSEP non-AP EHT STA shall update its CWmin[AC], CWmax[AC], AIFSN[AC] and TXOP[AC] state variables to the values from dot11EDCATable

Each AP affiliated with an AP MLD that has enabled NSEP priority access shall announce EDCA parameters in Management frames it transmits (see 10.2.3.2 HCF contention based channel access (EDCA)) that lead to lower priority for all non-NSEP STAs compared to the EDCA parameters of dot11EDCATable.

~~Additional details regarding NSEP priority access operation between non-AP MLD and AP MLD is TBD.~~

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**9.4.2.XX1 NSEP EDCA Parameter Set element**

An AP affiliated with an NSEP AP MLD uses the NSEP EDCA Parameter Set element to control the use of EDCA by EHT non-AP STAs when NSEP priority access is enabled, as defined in 35.10.3 (NSEP priority access procedure). The EHT non-AP STA uses the most recently received NSEP EDCA Parameter Set element to update the appropriate MIB values. The format of the NSEP EDCA Parameter Set element is defined in Figure 9-XXXa (NSEP EDCA Parameter Set element format).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Element ID | Length | Element ID Extension | QoS Info | NSEP AC\_BE Parameter Record | NSEP AC\_BK Parameter Record | NSEP AC\_VI Parameter Record | NSEP AC\_VO Parameter Record |
| 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 |

**Figure 9-XXXa—NSEP EDCA Parameter Set element format**

The Element ID, Length, and Element ID Extension fields are defined in 9.4.2.1 (General).

The format of the QoS Info field is defined in 9.4.1.17 (QoS Info field) when sent by an AP affiliated with an NSEP AP MLD.

The format of the NSEP AC\_BE, NSEP AC\_BK, NSEP AC\_VI, and NSEP AC\_VO Parameter Record fields are identical and defined in Figure 9-XXXb (NSEP AC Parameter Record field format).

|  |  |  |
| --- | --- | --- |
| ACI/AIFSN | ECWmin/ ECWmax | TXOP Limit |
| 1 | 1 | 2 |

**Figure 9-XXXb—NSEP AC Parameter Record field**

The format and definition of ACI/AIFSN, ECWmin/ ECWmax and TXOP Limit value are identical to those defined in 9.4.2.28 (EDCA Parameter Set element).

**9.4.2.XX2 NSEP MU EDCA Parameter Set element**

The NSEP MU EDCA Parameter Set element is used by an AP affiliated with an NSEP AP MLD to control the use of EDCA by EHT non-AP STAs that have NSEP priority access enabled following particular HE TB PPDU transmissions, as defined in 26.2.7 (EDCA operation using MU EDCA parameters). The most recent NSEP MU EDCA Parameter Set element received by an EHT non-AP STA is used to update the appropriate MIB values when NSEP priority access is enabled.

The format of the NSEP MU EDCA Parameter Set element is defined in Figure 9-XXXc (NSEP MU EDCA Parameter Set element format).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Element ID | Length | Element ID Extension | QoS Info | NSEP MU AC\_BE Parameter Record | NSEP MU AC\_BK Parameter Record | NSEP MU AC\_VI Parameter Record | NSEP MU AC\_VO Parameter Record |
| 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 |

***Figure 9-XXXc—NSEP MU EDCA Parameter Set element format***

The Element ID, Length, and Element ID Extension fields are defined in 9.4.2.1 (General).

The format of the QoS Info field is defined in 9.4.1.17 (QoS Info field) when sent by the AP affiliated with an MLD.

The format of the NSEP MU AC\_BE, NSEP MU AC\_BK, NSEP MU AC\_VI, and NSEP MU AC\_VO Parameter Record fields are identical and defined in Figure 9-XXXd (NSEP MU AC Parameter Record field format).

|  |  |  |
| --- | --- | --- |
| ACI/AIFSN | ECWmin/ ECWmax | MU EDCA Timer |
| 1 | 1 | 2 |

**Figure 9-XXXd—NSEP MU AC Parameter Record field**

The format and definition of ACI/AIFSN, ECWmin/ ECWmax and MU EDCA Timer value are identical to those defined in 9.4.2.251 (MU EDCA Parameter Set element).

Straw Poll:

Do you support to incorporate the proposed draft text in 11-21-0555r2 to the latest TGbe Draft for addressing CIDs 1709, 2171