IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Proposed Comment Resolution (CC34) and Draft Text for NSEP Priority Access | | | | |
| Date: 2021-03-29 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | email |
| Subir Das  John Wullert  Kiran Rege | Perspecta Labs |  |  | (sdas, jwullert, krege) @perspectalabs.com |
| An Nguyen,  Frank Suraci | DHS/CISA/ECD |  |  | (an.p.nguyen, frank.suraci) @cisa.dhs.gov |
| Dibakar Das | Intel |  |  | dibakar.das@intel.com |
| Chittabrata Ghosh | Facebook |  |  | chittabrata@fb.com |
| Leif Wilhelmsson | Ericsson |  |  | leif.r.wilhelmsson@ericsson.com |
| Matthew Fischer | Broadcom |  |  | matthew.fischer@BROADCOM.COM |
| Gaurav Patwardhan | Hewlett Packard Enterprise (HPE) |  |  | gaurav.patwardhan@hpe.com |
| Sam Sambasivan | AT&T |  |  | Sam\_Sambasivan@labs.att.com |
| Srinivas Kandala | Samsung |  |  | Srini.k1@samsung.com |

Rev1: Addresses offline comments

Rev2: Addresses comments received from members

Rev3: Addresses comments received from members

Rev 4: Minor correction

Rev 5 : Clean version

Rev 6: Addresses additional comments from members

**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.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 ~~STA~~ and a non-AP MLD ~~STA~~ is successful, then both the AP MLD ~~STA~~ and the non-AP MLD ~~STA~~ shall apply NSEP priority access to their respective NSEP traffic using ~~a TBD~~ the procedure described below. If an AP MLD or non-AP MLD 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 ~~STA~~ shall ensure that only authorized non-AP MLDs ~~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 dot11EHTNSEPPriorityAccessActivated.

An NSEP non-AP MLD is a non-AP MLD where the affiliated non-AP STAs have a value of true for dot11EHTNSEPPriorityAccessActivated.

**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 shall manage its EDCA parameter sets as follows:

* During the process of enabling NSEP priority access, the STA affiliated with NSEP MLD shall update its CWmin[AC], CWmax[AC], AIFSN[AC] and TXOP[AC] state variables to the values provided in the EDCA Parameter Set element for the corresponding AP in the NSEP Request/Response Action frame or, if the EDCA Parameter Set element is not present, to the default EDCA parameter values found in Table 9-137 (Default EDCA Parameter Set element parameter values if dot11OCBActivated is false). While NSEP priority access is enabled, the STA affiliated with NSEP non-AP MLD shall ignore EDCA parameters that are sent by the corresponding AP in its Beacon and Probe Response frames using the procedures in 10.2.3.2 (HCF contention based channel access (EDCA)).

Note to the Editor: Please add EDCA Parameter Set element (Clause 9.4.2.28 (EDCA Parameter Set element) to the NSEP Request Action frame (Clauses 9.6.xx.x1 (NSEP Priority Access Enable Request frame format)) and Response Action frame (Clause 9. 6.xx.X2 (NSEP Priority Access Enable Response frame format)).

After the NSEP priority access is disabled, the STA affiliated with an NSEP MLD shall update its CWmin[AC], CWmax[AC], AIFSN[AC] and TXOP[AC] state variables following the procedures in 10.2.3.2 (HCF contention based channel access (EDCA)).

Each AP affiliated with an NSEP 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 are being used by associated NSEP STAs operating in that link.

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

Straw Poll:

Do you support to incorporate the proposed draft text in 11-21-0555r6 to the latest TGbe Draft for addressing CIDs 1709, 2171