IEEE P802.11
Wireless LANs

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| Proposed TBD ResolutionsNSEP Priority Access |
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Abstract

This submission proposes draft text address three of the TBDs in the 802.11be Draft 0.1 related to NSEP Priority access.

Revisions:

* Rev 0: Initial version of the document

35. Extreme High Throughput (EHT) MAC specification

35.8 NSEP Priority Access

A STA with a value of true for dot11EHTNSEPPriorityAccessActivated shall set to 1 the NSEP Priority Access Supported subfield of the EHT Capabilities element that it transmits and is capable of invoking NSEP priority access. A STA with a value of false for dot11EHTNSEPPriorityAccessActivated shall set to 0 the NSEP Priority Access Supported subfield of the EHT Capabilities element that it transmits and is not capable of invoking NSEP priority access.

During the (re)association process, the AP obtains information required to verify the authority of the non-AP STA to use NSEP priority access.. An AP that has dot11SSPNInterfaceActivated set to true may use the interworking procedures described in Clause 11.22.5 to retrieve the NSEP Priority Access authorization information from an NSEP Service Provider via the SSPN interface during association. To support this exchange, the non-AP STA with dot11EHTNSEPPriorityAccessActivated equal to true shall provide the home realm information of the NSEP provider and necessary authentication parameters as described in Clause 11.22.5. If the AP successfully obtains the authorization information for the non-AP STA, it shall create and set the value of dot11NonAPStationAuthNSEPPriorityAccesstype in the dot11InterworkingEntry for the non-AP STA. Other methods of obtaining this authorization information are vendor specific. As described in Clause 11.22.5.3 (Reporting and session control with SSPN), this authorization information in the dot11InterworkingEntry is passed from the old AP to the new AP in the same BSS or IBSS during re-association.

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 TGbe editor: Add the following entry to Table R-3 in R.4.2.1

|  |  |  |  |
| --- | --- | --- | --- |
| Information or Permission name  | From AN to SSPN  | From SSPN to AN  | Per non-AP STA Entry  |
| Authorized NSEP Priority Access Type  |  | + | + |

TGbe editor: Add the following text to Section R.4.2

R.4.2.x Authorized NSEP Priority Access Type

This per-non-AP STA parameter indicates the priority type allocated to the non-AP STA as determined by the SSPN. The AP will use this information to authorize requests for NSEP Priority Access.

The following is used:

- dot11NonAPStationAuthNSEPPriorityAccesstype is to authorize a non-AP STA to enable NSEP Priority Access

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To enable NSEP priority access when instructed to do so by a higher-layer function, a non-AP STA with dot11EHTNSEPPriorityAccessActivated equal to true shall transmit an NSEP Priority Access Request frame 9.6.34a.2 (NSEP Priority Access Request frame format) with a value of Enable in the Request Type field to an associated AP with dot11EHTNSEPPriorityAccessActivated set to true. The AP verifies the authority of the requesting non-AP STA to use NSEP priority access. If the requesting non-AP STA is verified for NSEP priority access, the AP responds to the request by transmitting an NSEP Priority Access Response frame 9.6.34a.3 (NSEP Priority Access Response frame format)] with a value of SUCCESS in the Status Code field. Alternatively, to enable NSEP Priority Access when instructed to do so by a higher-layer function, an AP with dot11EHTNSEPPriorityAccessActivated set to true shall transmit an NSEP Priority Access Request frame 9.6.34a.2 (NSEP Priority Access Request frame format) with a value of Enable in the Request Type field to a non-AP STA with dot11EHTNSEPPriorityAccessActivated set to true. The non-AP STA responds to the request by transmitting an NSEP Priority Access Response Action frame 9.6.34a.3 (NSEP Priority Access Response frame format) with a value of SUCCESS in the Status Code field.

NOTE—The mechanism by which the AP verifies the authority to use NSEP priority access is outside the scope of this Standard.

If the NSEP Priority Access Response frame transmitted by the AP or the non-AP STA that completes the negotiation contains a status code of SUCCESS, then the AP and non-AP STA shall apply NSEP priority access to NSEP traffic using a TBD procedure.

To disable NSEP priority access when instructed to do so by a higher-layer function, a non-AP STA with dot11EHTNSEPPriorityAccessActivated set to true shall send an NSEP Priority Access Request frame 9.6.34a.2 (NSEP Priority Access Request frame format) with the value of Disable in the Request Type field to an associated AP with dot11EHTNSEPPriorityAccessActivated set to true. The AP that receives an NSEP Priority Access Request frame with the value of DISABLE in the Request Type field from an associated non-AP STA shall transmit an NSEP Priority Access Response frame to the non-AP STA with a value of SUCCESS in the Status Code field. Alternatively, to disable NSEP Priority Access when instructed to do so by a higher-layer function, an AP with dot11EHTNSEPPriorityAccessActivated set to true shall transmit an NSEP Priority Access Request frame 9.6.34a.2 (NSEP Priority Access Request frame format) with a value of Disable in the Request Type field to a non-AP STA with dot11EHTNSEPPriorityAccessActivated set to true. The non-AP STA responds to the request by transmitting an NSEP Priority Access Response Action frame 9.6.34a.3 (NSEP Priority Access Response frame format) with a value of SUCCESS in the Status Code field.

**Straw Poll:**

Do you support incorporating the changes proposed in this document (11-20/1772r0) into the TGbe Draft?