IEEE P802.11 Wireless LANs

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| Resolution for CIDs related to 35.16.3 (CC 36) | | | | |
| Date: April 10, 2021 | | | | |
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Abstract

This submission proposes resolutions for following 20 CIDs received for TGbe CC36: 4176, 4449, 4450, 5627, 5870, 5871, 7547, 4177, 4178, 4179, 4338, 5628, 6516, 6747, 7863, 5629, 5621, 5626, ~~7864,~~ 5624, 5619

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Update per offline comments:
  + Change resolution of #7547 to revised.
  + Change resolution of #4179 to revised.
  + Add the additional text of #6747
  + Corresponding text changes in subclause 9.6.35
  + Editorial changes
* Rev 2: Update per offline comments from Alfred and convert the CR text based on 802.11be D1.4.
* Rev 3: Fix the format issue and clarify the text based on the comments offline.
* Rev 4: Fix the editorial errors (change of NSEP to EPCS), text change per Laurent’s comments.
* Rev 5: Update the text related to MU EDCA per Jason’s comment on CID#4178.
* Rev 6: Added Jason and Ming as co-author

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** | **Section** | **Pg/Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 4176 | 35.11.3.1 | 307.32 | I'm a bit confused. NSEP request/responses are at MLD level but priority access is at link level, but EDCA parameter set (which is at link level) is included in the NSEP response (which is at MLD level). But then which link does EDCA parameter set applies to? all of them, or the one where response is sent? Please clarify. | As in comment. | Note: per clarification with the commenter, the page/line numbers should be 309/61.  **Revised**  Agree in principle with the comment. The EPCS priority access is at MLD level. (Note: NSEP is now called as EPCS (CID#5284)  The AP affiliated with the EPCS AP MLD should indicate the EDCA parameter sets, if present, corresponding to the links in the EPCS priority access setup procedure.  See the discussion and revised text labelled as #4176.  **TGbe editor please implement changes labelled as #4176 in this doc.** |
| 5870 | 35.11.3.1 | 309.59 | In the first setence of Section 35.11.3.1, why the text "or a non-AP EHT STA" is needed if the negotiation to enable NSEP priority access between an AP MLD and a non-AP MLD is successful? Note that the negotiation is at the MLD level.." | Delete the text "or a non-AP EHT STA" in the first setence of Section 135.11.3.1. | **Accepted** |
| 5627 | 35.11.3.1 | 310.01 | Requirement for AP MLD to ensure that only authorized non-AP MLDs can invoke NSEP priority access is redundant. | Revise text to reflect that non-AP MLD shall only make use of NSEP priority access when authorized by the AP MLD. | **Revised**  Agree in principle with the comment and revise the text accordingly.  **TGbe editor please implement changes labelled as #5627 in this doc.** |
| 7547 | 35.11.3.1 | 310.01 | "The AP MLD shall ensure that only authorized non-AP MLDs can invoke NSEP priority access." One way to ensure is to disassociate violating STAs. It may be described here. A new Status Code value may be introduced for this purpose. | As in comment. | **Revised**  The corresponding sentence was deleted w.r.t. to CID #5627.  **TGbe editor: please implement changes labelled as #5627 in this doc.** |
| 4449 | 35.11.3.1 | 310.06 | The sentence does not clarify whether it is required that at least one of the affiliated APs shall have a value of true for dot11EHTNSEPPriorityAccessActivated or all the affiliated APs shall have a value of true for dot11EHTNSEPPriorityAccessActivated. | Please clarify if the requirement for having a value of true for dot11EHTNSEPPriorityAccessActivated is required for \*all\* affiliated APs or \*for at least one\* of the affiliated APs | **Revised**  Agree in principle with the comment. The EPCS priority access is at MLD level and applies to all affiliated APs.  The corresponding text is revised accordingly.  **TGbe editor please implement changes labelled as #4449 in this doc.** |
| 5871 | 35.11.3.1 | 310.06 | "Can STAs affiliated with an MLD have different values for dot11EHTNSEPPriorityAccessActivated?  If not, why not? It is a per STA attribute.  If yes, then the text in line 6 to line 11 on page 310 does cover the case of STAs in an MLD with different vaues for dot11EHTNSEPPriorityAccessActivated." | Please address the questions asked in this comment and clarify the text in line 6 to line 11 on page 310. | **Revised**  Agree in principle with the comment. The EPCS priority access is at MLD level and applies to all affiliated APs.  The MIB variable dot11EHTEPCSPriorityAccessActivated is at the MLD level.  Please refer to CR of CID #4450.  **TGbe editor please implement changes labelled as #5871 in this doc.** |
| 4450 | 35.11.3.1 | 310.09 | The sentence does not clarify whether it is required that at least one of the affiliated non-AP STAs shall have a value of true for dot11EHTNSEPPriorityAccessActivated or all the affiliated non-AP STAs shall have a value of true for dot11EHTNSEPPriorityAccessActivated. | Please clarify if the requirement for having a value of true for dot11EHTNSEPPriorityAccessActivated is required for \*all\* affiliated non-AP STAs or \*for at least one\* of the affiliated non-AP STAs | **Revised**  Agree in principle with the comment. The EPCS is enabled at MLD level and applies to all affiliated non-AP STAs.  The corresponding text is resolved in conjunction with #5871.  **TGbe editor please implement changes labelled as #4450 in this doc.** |
| 7863 | 35.11.3.2 | 310.19 | Please change "NSEP MLD" in following sentence "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 Priority Access Enable Request Action frame or NSEP Priority Access Enable Response Action frame" to "NSEP non-AP MLD". | See the comment | **Accepted** |
| 4338 | 35.11.3.2 | 310.20 | The state variable "TXOP[AC]" should be replaced with "TXOP\_Limit[AC]" state variable to reflect the value of the TXOP Limit field. | As in comment. | **Accepted** |
| 6516 | 35.11.3.2 | 310.16 | "It is not clear how the NSEP priority access procedure functions. Typically, what is/are the AC(s)  - used for frames invoking the NSEP priority access,  - to be limited during a NSEP priority access  - to be used as emergency during a NSEP priority access ?" | See the comment | **Revised**  Agree in principle with the comment.  EPCS priority access is for the authorized EPCS device and enabled through the EPCS priority access setup process (see 35.16.2.2). It cannot be used for other emergency service.  The resolution is in conjunction with #4176 in Clause 35.16.3.2 about the procedures for using the EDCA parameters and corresponding ACs for EPCS non-AP MLDs.  ACs for enabling the EPCS priority access are defined in Clause 11.24.1.2  **TGbe editor please implement changes labelled as #6516 in this doc.** |
| 5626 | 35.11.2.2.3.2 | 309.22 | 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 Request frame. Need to describe that behavior here. | Add text to capture EDCA-related requirements. | **Revised**  Agree in principle with the comment and revise the text accordingly.  **TGbe editor please implement changes labelled as #5626 in this doc.** |
| 4177 | 35.11.3.2 | 310.19 | These updates apply to for all Acs. Please apply throughout. | As in comment. | **Revised**  Agree in principle with the comment. Add text “of each access category”.  **TGbe editor please implement changes labelled as #4177 in this doc.** |
| 4178 | 35.11.3.2 | 310.28 | A note is needed here to specify that the NSEP STA continues to follow the MU EDCA operation rules that are defined in 26.smth since the NSEP STA is also an HE STA. | As in comment. | **Revised**  Agree in principle with the comment.  When the EPCS priority access is enabled, an EPCS non-AP MLD should follow the rule to update MU EDCA parameters to the values of MU EDCA contained in Per-STA Profile of Multi-Link Priority Access element if included in EPCS Priority Access Enable frame.  **TGbe editor please implement changes labelled as #4178 in this doc.** |
| 6747 | 35.11.3.2 | 310.36 | Why mandate lowering of priority for non-NSEP STAs? The priority of NSEP traffic has already been increased, lowering should be optional for the AP. | Change " ... shall announce EDCA parameters..." to "... should shall announce EDCA parameters" | **Revised**  Agree in principle with the comment.  The AP shall lower the priority for the non-EPCS devices’ channel access only when their priority is equal to or higher than the EPCS EDCA priority.  **TGbe editor please implement changes labelled as #6747 in this doc.** |
| 4179 | 35.11.3.2 | 310.38 | This is something along either increase priority for NSEP or lower for non-SEP. So just remove the refernce subclause in this sentence. That way it does not matter how the prioritized access is achieved. If needed just add anote mentioning both cases. | As in comment. | **Revised**  Agree in principle with the first part of the comment; this is addressed by resolution of CID #6747.The reference is necessary. Because it indicates the procedure for an AP affiliated with the EPCS AP MLD to follow when EPCS PA is enabled.  **TGbe editor please implement changes labelled as #6747 in this doc.** |
| 5628 | 35.11.3.2 | 310.39 | "Grammatical errors:  - ""leads"" should be ""lead""  - ""parameters are being"" should be ""parameters being""" | As in comment. | **Accepted** |
| 5621 | 35.11.2.2.2.3 | 307.41 | Priority access treatment procedure defined in 35.11.3 requires AP MLD to transmit EDCA parameters to target non-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 in principle with the comment.  Add the text “the EPCS EDCA parameter set may be included in EPCS Priority Access Enable request to the EPCS non-AP MLD”.  See text change labelled as #5621.  **TGbe editor please implement changes labelled as #5621 in this doc.** |
| 5629 | 35.11.3.2 | 311.40 | Revise requirement to distribute updated EDCA parameters to non-NSEP STAs: to "Each AP affiliated with an NSEP AP MLD that has NSEP priority access for at least one associated NSEP STA 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 STAs without NSEP priority access enabled compared to the EDCA parameters being used by associated NSEP STAs on that link that have NSEP priority access enabled." | As in comment | **Revised**  Agree in principle with the comment and revise the text accordingly.  **TGbe editor please implement changes labelled as #5629 in this doc.** |
| ~~7864~~ | 35.11.3.2 | 310.25 | The procedure of EDCA operation using NSEP EDCA parameters is not efficient and effective for the NSEP AP MLD to control NSEP non-AP devices to perform EDCA based channel access when multiple NSEP non-AP devices contend to media at same time and cause access congestion. | Please define a method to allow an NSEP AP MLD to update NSEP EDCA parameters in broadcast way to control NSEP enabled non-AP devices' priority access when experiencing NSEP priority access congestion. |  |
| 5624 | 35.11.2.2.3.1 | 308.33 | Priority access treatment procedure defined in 35.11.3 requires AP MLD to transmit EDCA parameters to requesting non-AP MLD in the NSEP Priority Access Enable Response frame. Need to describe that behavior here. | Add text to capture EDCA-related requirements. | **Revised**  Agree in principle with the comment and add the text for the AP MLD to carry EPCS EDCA parameter sets in the EPCS Priority Access Enable response. See the text change labelled as #5624.  **TGbe editor please implement changes labelled as #5624 in this doc.** |
| 5619 | 35.11.2.2.2.1 | 306.58 | 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**  Agree in principle with the comment. Suggest adding the text to update EDCA parameter set to the EPCS EDCA parameter sets received in EPCS Priority Access Enable response. Please refer to the text change labelled as #5619.  **TGbe editor please implement changes labelled as #5619 in this doc.** |

**Discussion**

**Discussion**: EPCS priority access is a special service for EPCS authorized devices. When an EPCS non-AP MLD and an EPCS AP MLD exchange EPCS Priority Access Enable Request and Response messages on a setup link and succeed, the EPCS priority access service is enabled at MLD level. The EPCS priority access enabled non-AP MLD is allowed to gain EPCS priority access on all setup links.

Based on the discussion and SP result in the contribution of 11-21-1862-00-00be-NSEP priority access treatment, it is preferred to Option B to distribute the dedicated EDCA parameter set to NSEP non-AP MLD.

Option B: Using dedicated NSEP EDCA Parameters in Request/Response Frames as described shown in slide #5

This contribution proposes to use the variant ML element to carry the EPCS EDCA parameter sets for EPCS non-AP MLD priority access.

***TGbe editor: Please note baseline is 802.11be D1.4.***

**9.4.2.312 Multi-Link element**

**9.4.2.312.1 General**

***TGbe editor: Add a new row to Table 9-401b (Type subfield encoding) in numerical order, and update the Reserved row:***

**Table 9-401b—Type subfield encoding (#4176)**

|  |  |
| --- | --- |
| **Type subfield value** | **Multi-Link element variant name** |
|
| 0 | Basic (see 9.4.2.312.2 (Basic Multi-Link element)) |
| 1 | Probe Request (see 9.4.2.312.3 (Probe Request Multi-Link element)) |
| 2(#4659) | Reconfiguration (see [9.4.2.312.4 (Reconfiguration Multi-Link](#bookmark143) [element(#4659))](#bookmark143)) |
| 3 | Priority Access (see 9.4.2.312.5 (Priority Access Multi-Link element)) |
| 4-7 | Reserved |

***TGbe editor: Add the following new subclause:***

**9.4.2.312.5 Priority Access Multi-Link element (#4176)**

The Priority Access Multi-Link element carries EDCA Parameter sets used by EPCS priority access (see 35.16 (EPCS priority access)).

The format of the Presence Bitmap subfield of the Priority Access Multi-Link element is defined in Figure 9-1002f1 (Presence Bitmap subfield of the Priority Access Multi-Link element format).

|  |  |  |
| --- | --- | --- |
|  | B0 | B1 B11 |
|  | AP MLD MAC Address Present | Reserved |
| Bits: | 1 | 11 |

**Figure 9-1002f1—Presence Bitmap subfield of the Priority Access Multi-Link element format**

The AP MLD MAC Address Present subfield is set to 1 if the AP MLD MAC Address field is present in the Common Info field. Otherwise, the subfield is set to 0.

The format of the Common Info field of the Priority Access Multi-Link element is defined in Figure 9-1002f2 (Common Info field of the Priority Access Multi-Link element format).

|  |  |
| --- | --- |
|  | AP MLD MAC  Address |
| Octets: | 0 or 6 |

**Figure 9-1002f2—Common Info field of the Priority Access Multi-Link element format**

The AP MLD MAC Address subfield specifies the MAC Address of the AP MLD which the AP transmitting the Priority Access Multi-Link element is affiliated with.

The Link Info field contains zero or more subelements of Per-STA Profile. The subelement format and ordering of subelements are defined in 9.4.3 (Subelements).

The Subelement ID field values for the defined subelements of the Priority Access Multi-Link element are shown in Table 9-1002f3 (Optional subelement IDs for Priority Access Multi-Link element).

**Table 9-1002f3— Optional subelement IDs for the Priority Access Multi-Link element**

|  |  |  |
| --- | --- | --- |
| **Subelement ID** | **Name** | **Extensible** |
| 0 | Per-STA Profile | Yes |
| 1-220 | Reserved |  |
| 221 | Vendor Specific | Vendor defined |
| 222-255 | Reserved |  |

Each Per-STA Profile subelement starts with a STA Control field, followed by a variable number of fields and elements.

The format of a Per-STA Profile subelement is defined in Figure 9-1002f4 (Per-STA Profile subelement format for the Priority Access Multi-Link element).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Subelement ID | Length | STA Control | STA Profile |
| Octets: | 1 | 1 | 2 | variable |

**Figure 9-1002f4—Per-STA Profile subelement format for the Priority Access Multi-Link element**

The format of the STA Control field is defined in Figure 9-1002f5 ([STA Control field format for the Priority Access Multi-Link element](#bookmark46)).

|  |  |  |
| --- | --- | --- |
|  | B0 B3 | B4 B15 |
|  | Link ID | Reserved |
| Bits: | 4 | 12 |

**Figure 9-1002f5—STA Control field format for the Priority Access Multi-Link element**

The Link ID subfield specifies a value that uniquely identifies the link that the AP affiliated with the AP MLD is operating on.

The STA Profile subfield optionally contains the following two elements:

* The EDCA Parameter Set element defined in 9.4.2.28 (EDCA Parameter Set element) which carries the EDCA parameter information used for priority access on the link identified by the Link ID in the STA Control field, and
* The MU EDCA Parameter Set element defined in 9.4.2.251 (MU EDCA Parameter Set element) which carries the MU EDCA parameter information used for MU priority access on the link identified by the Link ID in the STA Control field. (#4178).

The Vendor Specific subelements have the same format as their corresponding elements (see 9.4.2.25 (Vendor Specific element)). Zero or more Vendor Specific subelements are included in the list of optional subelements.

*TGbe editor: Please change 35.16.3 as follows (track change on):*

* + 1. **EPCS priority access procedure (#5284)**
       1. **General(#1709)**

(#1470)(#2306)(#1709)(#2171) (#4176) (#4450) EPCS priority access procedure allows EPCS non-AP MLDs with priority access in the enabled state to gain priority access to medium. If the negotiation to enable EPCS priority access between an EPCS AP MLD and an EPCS non-AP MLD is successful, then the STA affiliated with the non-AP MLD applies EPCS priority access to its EPCS traffic on all enabled links using the procedure described below. (#4176).

(#5284) An EPCS non-AP MLD shall apply EPCS priority access procedures only when its EPCS priority access state is set to enabled. (#5627)(#7547) An EPCS AP MLD may apply EPCS priority access to EPCS traffic using the procedure described below prior to completion of the negotiation to enable EPCS priority access(#7523).

An EPCS AP MLD is an AP MLD with dot11EHTEPCSPriorityAccessActivated set to true (#4449).

An EPCS non-AP MLD is a non-AP MLD with dot11EHTEPCSPriorityAccessActivated set to true (#5871) (#4450).

* + - 1. **EDCA operation using EPCS EDCA parameters(#5284) (#1709)(#2171)**

*TGbe editor: Please change the text in 35.16.3.2 as follows (track change on):*

(#5284)As part of the EPCS priority access procedure, a STA affiliated with an EPCS non-AP (#5626) MLD shall manage its EDCA parameter sets as follows:

— During the process of enabling EPCS priority access, the STA affiliated with the EPCS non-AP (#7863) MLD shall

* Update its CWmin[AC], CWmax[AC], AIFSN[AC], and TXOP Limit(#4338) [AC] state variables of each access category to: (#6516) (#4177)
* the values carried in the EDCA Parameters Set element in the Per-STA Profile corresponding to the AP to which the STA is associated ~~Link ID~~ in Priority Access Multi-Link element contained in an EPCS Priority Access Enable action frame sent by the EPCS AP MLD, if the corresponding Per-STA Profile is present and contains an EDCA Parameters Set element (#5626)(#5619)(#4176) or,
* the default EDCA parameter values found in Table 9-155 (Default EDCA Parameter Set element parameter values if dot11OCBActivated is false or the STA is a non-sensor STA) otherwise.
* Update the dot11MUEDCATable to respective values that correspond to fields in the MU EDCA Parameter Set element in the Per-STA Profile corresponding to the AP to which the STA is associated in Priority Access Multi-Link element contained in an EPCS Priority Access Enable action frame sent by the EPCS AP MLD, if the corresponding Per-STA Profile is present and contains an MU EDCA Parameter Set element (#4178).

— While EPCS priority access is enabled, each STA affiliated with an EPCS non-AP MLD shall

* use the latest EDCA Parameter Set, corresponding to the Link ID in the Priority Access Multi-Link element contained in a EPCS Priority Access Enable action frame sent by the EPCS AP MLD, if the Per-STA Profile corresponding to the AP to which the STA is associated is included in the Priority Access Multi-Link element ~~if present~~, (#5626)(#5619)(#4176) and
* ignore the part of the procedures defined in 10.2.3.2 (HCF contention based channel access (EDCA)) that concerns the update of the EDCA parameters and the part of the procedures defined in 26.2.7 (EDCA operation using MU EDCA parameters) that concerns the update of the MU EDCA parameters (#4178). that are sent by the corresponding AP in its Beacon and Probe Response frames.
* follow the rules defined in 26.2.7 (EDCA operation using MU EDCA parameters), except that
  + update the dot11MUEDCATable to respective values that correspond to fields in the MU EDCA Parameter Set element in the Per-STA Profile corresponding to the AP to which the STA is associated in Priority Access Multi-Link element contained in an EPCS Priority Access Enable action frame sent by the EPCS AP MLD, if the corresponding Per-STA Profile is present and contains an MU EDCA Parameter Set element (#4178).
  + if the MUEDCATimer[AC] of the STA reaches 0, either by counting down or due to a reset following the reception of an MU EDCA Reset frame, the STA shall update CWmin[AC], CWmax[AC] and AIFSN[AC] to the values that are contained in the EDCA Parameters Set element in the Per-STA Profile corresponding to its associated AP in the Priority Access Multi-Link element, if the corresponding Per-STA Profile is contained in an EPCS Priority Access Enable action frame sent by the EPCS AP MLD and the Per-STA Profile contains an EDCA Parameter Set element.(#4178)
* ~~Note: the STA affiliated with an EPCS non-AP MLD follows the rules of MU EDCA operation defined in 26.2.7 (EDCA operation using MU EDCA parameters.(#4178)~~

— (#5284)After the EPCS priority access is torn down, each STA affiliated with an EPCS non-AP MLD (#5626)(#5619)

* shall update its CWmin[AC], CWmax[AC], AIFSN[AC], and TXOP Limit [AC] state variables following the procedures in 10.2.3.2 (HCF contention based channel access (EDCA)).
* shall update the dot11MUEDCATable following the procedures in 26.2.7 EDCA operation using MU EDCA parameters (#4178)
* ~~Note: the STA affiliated with an EPCS non-AP MLD follows the rules of MU EDCA operation defined in 26.2.7 (EDCA operation using MU EDCA parameters. (#4178)~~

*TGbe editor: Please change the following paragraph in 35.16.3.2 as appropriate (track change on):*

An AP affiliated with an EPCS AP MLD manages the EDCA parameter set and the MU EDCA parameter set (#4178) for EPCS non-AP MLD with the EPCS priority access in the enabled state and non-EPCS non-AP MLDs as follows (#5621):

— (#5629) If the EPCS priority access state is in the enabled state by at least one associated EPCS non-AP MLD, then

* if the EDCA parameters previously sent out by an AP affiliated with an EPCS AP MLD in Management frames it transmits (see 10.2.3.2 (HCF contention based channel access (EDCA))) do not result in higher priority for STAs that are affiliated with EPCS non-AP MLDs in the enabled state, (#6747) that AP shall announce EDCA parameters in Management frames that result in higher priority for those STAs with EPCS priority access in the enabled state; (#5628)

— Otherwise,

* an AP affiliated with an EPCS AP MLD with its EPCS priority access state set to the torn down state for all its associated STAs announces the EDCA parameter set corresponding to the link in Management frames (e.g. Beacon or Probe Response) that it transmits following the procedure in 10.2.3.2 (HCF contention based channel access (EDCA)). (#5629)

*TGbe editor: Change 35.16.2.2.4 as follows (track change on):*

1. (#5284) If the Status Code in the MLME-EPCSPRIACCESSENABLE.response primitive is equal to SUCCESS, the receiving AP MLD shall (#5623) set the state of the EPCS priority access to enabled for the requesting (#7358) non-AP MLD (#5624)
   1. The receiving AP MLD may include the Priority Access Multi-Link element in the EPCS Priority Access Enable response frame to allow the requesting non-AP MLD to employ priority access using the included EDCA parameter set and/or MU EDCA parameter set on the corresponding links (#5624).
2. (#5284)If the Status Code in the MLME-EPCSPRIACCESSENABLE.response primitive is equal to a value other than SUCCESS, the receiving AP MLD shall (#5623)keep the torn down state of the EPCS priority access for the requesting (#7358)non-AP MLD. (#5624)

(#5284)(#1127)Upon receipt of an EPCS Priority Access Teardown frame (9.6.35.7 (EPCS Priority Access Teardown frame details(#5284)(#1127))), an AP MLD with dot11EHTEPCSPriorityAccessActivated equal to true and with EPCS priority access enabled (#5658)state shall use the following procedure to tear down EPCS priority access.

1. (#5284)The receiving AP MLD shall issue an MLME-EPCSPRIACCESSTEARDOWN.indication primitive.
2. (#5284)The receiving AP MLD shall (#5625)change the EPCS priority access (#5623)(#5856)state to torn down for the requesting non-AP MLD (#5624).

*TGbe editor: Change 35.16.2.2.3 as follows (track change on):*

1. (#4445)(#1119)(#1488)(#5284) If an AP affiliated with the initiating AP MLD receives an EPCS Priority Access Enable Response frame (9.6.35.6 (EPCS Priority Access Enable Response frame format(#5284)(#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-EPCSPRIACCESSENABLE.confirm primitive with a value of SUCCESS in the Status Code field indicating successful (#5856) transition of EPCS priority access to the enabled state. The initiating AP MLD shall (#5856) change EPCS priority access to the enabled state so that subsequently transmitted traffic receives EPCS priority access treatment using the procedure defined in 35.16.3 (EPCS priority access procedure(#5284))
   1. (#5621) The initiating EPCS AP MLD may include the Priority Access Multi-Link element in the EPCS Priority Access Enable request frame to allow the destination EPCS non-AP MLD to employ priority access using ~~s to enable EPCS priority access with~~ the included EDCA parameter set and/or MU EDCA parameter set on the corresponding links.

(#5284)(#5866)(#4447)(#1127) An AP affiliated with the tearing down AP MLD shall transmit an EPCS Priority Access Teardown frame (9.6.35.7 (EPCS Priority Access Teardown frame details(#5284)(#1127)) to a non-AP STA affiliated with an associated(#7358)(#7533) EPCS non-AP MLD. (#4444) The destination of the EPCS Priority Access Teardown frame is the non-AP EHT STA indicated by the value of the PeerSTAAddress parameter in the MLME-EPCSPRIACCESSTEARDOWN.request primitive or the MAC address of the non-AP STA that is operating on the same link on which the EPCS Priority Teardown frame is transmitted and is affiliated with the non-AP MLD whose MAC address value indicated by the value of the PeerSTAAddress parameter in the MLME-EPCSPRIACCESSTEARDOWN.request primitive. (#5856) The tearing down AP MLD shall change the EPCS priority access state to torn down (#5626).

*TGbe editor: Change 9.6.35 as follows (track change on):*

###### 9.6.36.5 EPCS Priority Access Enable Request frame format(#5284)(#1119)(#1488)

(#5284)The EPCS Priority Access Enable Request frame is an Action frame of category Protected EHT. It is transmitted by a requesting MLD or non-AP EHT STA to request that EPCS priority access be(#5595) enabled. The Action field of the EPCS Priority Access Enable Request frame contains the information shown in [Table 9-623h (EPCS Priority Access Enable Request frame Action field format(#5284))](#bookmark205).

**Table 9-623h—EPCS Priority Access Enable Request frame Action field format(#5284)**

|  |  |
| --- | --- |
| **Order** | **Meaning** |
| 1 | Category |
| 2 | Protected EHT Action(4820) |
| 3 | Dialog Token |
| 4 | E  Priority Access Multi-Link element (#4176) |

The Category field is defined in [9.4.1.11 (Action field)](#bookmark71).

The Protected EHT Action field is defined in [9.6.35.1 (Protected EHT Action field)](#bookmark200).

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.

(

(#4176) The Priority Access Multi-Link field is defined in 9.4.2.312.5 Priority Access Multi-Link element.

###### 9.6.35.6 EPCS Priority Access Enable Response frame format(#5284)(#1119)(#1488)

(#5284)The EPCS Priority Access Enable Response frame is an Action frame of category Protected EHT. It is transmitted in response to an EPCS Priority Access Enable Request frame. The Action field of the EPCS Priority Access Enable Response frame contains the information shown in Table 9-623i (EPCS Priority Access Enable Response frame Action field format(#5284)).

**Table 9-623i—EPCS Priority Access Enable Response frame Action field format(#5284)**

|  |  |
| --- | --- |
| **Order** | **Meaning** |
| 1 | Category |
| 2 | Protected EHT |
| 3 | Dialog Token |
| 4(#5598) | Status Code |
| 5(#5598) | E  Priority Access Multi-Link element (#4176) |

The Category field is defined in [9.4.1.11 (Action field)](#bookmark71).

The Protected EHT Action field is defined in [9.6.35.1 (Protected EHT Action field)](#bookmark200).

The Dialog Token field value is copied from the Dialog Token field in the corresponding (#5284)EPCS Priority Access Enable Request frame.

The Status Code field values are defined in [Table 9-78 (Status codes)](#bookmark70).

(#4176) The Priority Access Multi-Link field is defined in 9.4.2.312.5 Priority Access Multi-Link element.