IEEE P802.11  
Wireless LANs

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| D1.0 CIDs FA mechanisms summary and MIB | | | | |
| Date: 2025-07-02 | | | | |
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Abstract

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This submission proposes resolution of comments received against the following sections of TGbi Draft 1.0:

* 4.5.4.10a (Enhanced Data Privacy (EDP) enhancements)
* 10.71.1 (Introduction)
* Annex C.3 (MIB Detail)

We propose draft specification text for TGbi draft D1.3.

Resolved CIDs (32): 128, 129, 130, 131, 156, 221, 222, 223, 224, 225, 510, 512, 514, 515, 516, 517, 795, 796, 797, 798, 941, 957, 1024, 1026, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038

Revisions:

* Rev 0: Initial version of the document..

**Background**

Overview of noteworthy changes

* Updates to 4.5.4.10a:
  + Alignment of text on CPE FA mechanisms and BPE FA mechanisms (#223)
  + Text explaining why SA/DA needs to be updated (#225)
* Updates to 10.71.1 (Introduction):
  + New title (General) – allows normative text
  + Description of the mechanisms comprising frame anonymization
  + Explaining that the set of BPE FA mechanisms includes the CPE FA mechanisms
  + Use of MIB in text
* Updates to Annex C.3 (MIB detail):
  + Definition of an MIB for enabling CPE FA mechanisms or BPE FA mechanisms

Note that there the authors have further changes to 4.5.4.10a and 10.71.1 which are provided in in 25/0951.

| **CID** | **Commenter** | **Clause** | **Page. Line** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- | --- |
| 512 | Mark RISON | 10.71.1 | 75.02 | At 25.1 we have "An AP MLD supporting BPE EDP features may reduce the availability of information about itself to a third party observer such as the ESS to which it belongs" but at 75.26 we have "Frame anonymization addresses unencrypted fields and elements in Beacon frames and individually addressed frames containing values that facilitate presence monitoring of a non-AP MLD", so it's not clear whether BPE is about the privacy of the AP or of the non-AP. Ooh, and in 10.71.8 it's both: "BSS Privacy Enhancement (BPE) operations protect privacy of BPE AP MLDs and associated BPE non-AP MLDs."! | Clarify the intent of BPE |  |
| 510 | Mark RISON | 10.71.1 | 75.22 | "DS MAC address" is missing an article | Prepend "a " | **Rejected**.  **Discussion**: This text is deleted by CDI #156 |
| 156 | Stephen McCann | 10.71.1 | 75.23 | What does "DS MAC address supported" mean? How can you support a MAC address? | Change "DS MAC address supported" to "the use of a destination MAC address is supported". | **Revised**.  **Discussion**: Firstly, it is unclear if this text is normative, so delete it from this sentence. Secondly, it is clearer to describe this dependency (including the requirement to use MLO) in terms of MIBs dot11DSMACAddressActivated, dot11MultiLinkActivated and dot11FrameAnonymizationMechanismActivated defined by CID #129.  **Changes:**  **P75 line 23:**  Delete “and DS MAC address is supported”.  **P75 line 17:** introduce the following text after the new text introduced by CIDs #130 and #131.  “  The value of dot11FrameAnonymizationMechanismsActivated shall be cpe(1) or bpe(2) only if both dot11MultiLinkActivated and dot11DSMACAddressActivated are true. (#156)  “ |
| 1024 | Philip Hawkes | 10.71.1 | 75.23 | FA provides CPE features and BPE features. | Replace "EDP CPE feature" with "EDP feature" | **Accepted** |
| 221 | Jarkko Kneckt | 10.71.1 | 75.23 | The frame anonymization clause should introduce BPE MLDs. The BPE MLDs should be mentioned in the first sentence and there should be clear introduction to both operations easily available. | Change the first sentence to read:" Frame anonymization (FA) is an EDP feature available when MLO is supported." | **Revised.**  **Discussion:** it seems more accurate to finish the sentence with “…enabled” rather than “supported”.  **Changes**  **P75 line 23**  Replace  “…when MLO is supported…”  with  “…when MLO is enabled…” |
| 222 | Jarkko Kneckt | 10.71.1 | 75.23 | There DS address has value for non-MLO devices. For MLDs, i.e. operation with the CPE and BPE operations DS address does not have value. The DS address is very similar with MLD address. If a (CPE /BPE) non-AP MLD is identified by PMKID, then link address and MLD address can be selected freely. | Allow CPE and BPE MLDs to operate without the DS MAC Address. | **Rejected**  **Discussion**: My understanding is that DS MAC address is a prerequisite. However, I’m not confident on this, so I am open to further discussion on this. |
| 224 | Jarkko Kneckt | 10.71.1 | 75.26 | The Beacon frames are anonymized only in the BPE mode. | Please clarify that Beacon and AP parameters in general are anonymized only in the BPE mode | **Revised**  **Discussion**: Agree in principle to identifying which frames are anonymized as part of CPE and BPE as part of the description of FA mechanisms for CID #223  **Changes:**  **P75 line 51**  Include the following text:  “  [CPE MAC header anonymization is] applied to individually addressed frames,  **“**  **and**  “  [BPE MAC header anonymization is] applied to individually addressed frames, group addressed frames and Privacy Beacons  **“** |
| 1026 | Philip Hawkes | 10.71.1 | 75.27 | BPE FA prevents presence monitoring of AP MLD (in addition to non-AP MLD already noted) | Replace "non-AP MLD" with "MLD" throughout the paragraph (4 occurences) | **Rejected**  The text that was in this paragraph has been deleted by CID #938. The change is no longer applicable. |
| 223 | Jarkko Kneckt | 10.71.1 | 75.36 | The frame anonymization levels (CPE and BPE) should be described in the introduction. | Please add CPE and BPE introduction. | **Revised**  **Discussion**: Partition FA mechanisms into:  - CPE FA mechanisms:  - EDP epoch operation  - AID anonymization  - CPE MAC header anonymization,  - BPE FA mechanisms:  - BPE MAC header anonymization  -Using A-MSDU to hide SA and DA  Propose deleting the current text from p17 line 51 to p76 line 7 (because it is too detailed) with introduction to this.  (If desired, Privacy Beacon can be included as a BPE FA mechanism)  **Changes**:  **P24 line 51 – p25 line 2**  Replace  “  A non-AP MLD supporting CPE frame anonymization can change the MAC address(es) and other fields used in communications by its affiliated STAs during an association. (#881, #304, #771, #297)  An AP MLD supporting BPE EDP features can reduce the availability of information about itself, such as the MAC address of its affiliated APs and the ESS to which it belongs, that is revealed to third party observers.(#789, #882)  “  With new text  “  The CPE frame anonymization mechanisms reduce the availability of information about a non-AP MLD (such as the MAC address(es) of its affiliated STAs) during an association. (#223, #881, #304, #771, #297)  The BPE frame anonymization mechanisms reduce the availability of information about an AP MLD and its associated non-AP MLDs (such as the MAC address of its affiliated APs, the ESS to which it belongs, and its group addresses) that is revealed to third party observers. (#223, #789, #882)  “  **P75 line 51 to P76 line 57**  Delete this text  This includes the text identified by the following CIDs, thus requiring rejection of those CIDs:  **P75 line 51:** Insert new text (  *Note: The new text incorporates changes addressing the following CIDs: #67, #128, #1031, #1032* |
| 1030 | Philip Hawkes | 10.71.1 | 75.44 | Lines 37-43 identified unencrypted fields and elements that facilitate presence monitoring of a non-AP MLD. Text is needed that identifies unencrypted fields and elements that facilitate presence monitoring of an AP MLD. | Insert the following text at line 44: " The unencrypted fields and elements that facilitate presence monitoring of an AP MLD are: --For all frames: Address 2 (on the downlink) and Address 1 (on the uplink). --For group addressed frames: Address 1 (on the downlink), Sequence Number (SN), Packet Number (PN). --For Beacon frames: Timestamp. " |  |
| 1031 | Philip Hawkes | 10.71.1 | 75.45 | There is no text explaining what FA provides with and without BPE enabled. | Insert the following text: "If an AP MLD does not have BPE enabled, then FA mitigates presence monitoring of non-AP MLDs only. If an AP MLD has BPE enabled, then FA mitigates presence monitoring of both non-AP MLDs only. " | **Revised**  **Rationale:** This is addressed by the resolution of CID #223 |
| 1032 | Philip Hawkes | 10.71.1 | 75.52 | There is no text about AID anonymization | Insert the following text: The AP MLD anonymizes AID by assigning random temporary AID for each non-AP MLD. | **Revised**  **Discussion:** Include a summary of AID anonymization as part of the overview of FA mechanisms introduced by #223.  **P75 line 51**  Include the following text:  “  — The AP MLD assigns the non-AP MLD a temporary, per-EDP-Epoch AID (see 10.71.7 (Frame anonymization and AID)) that is then used in AID fields and in fields and elements derived from the AID. |
| 514 | Mark RISON | 10.71.1 | 75.57 | "over the air values" should be "over-the-air values". Also 75.65, 76.1/5 | As it says in the comment | **Revised**  **Discussion**: This text has been deleted by CID #223.However, in any new text only “over-the-air values” is used. The editor may wish to do a global search for “over the air” in case any new occurrences were introduced. |
| 515 | Mark RISON | 10.71.1 | 75.57 | "safely transmitted in the clear while maintaining anonymity" -- not clear what "safely" means here | Delete "safely" | **Revised**  **Discussion**: This text has been deleted by CID #223. However, since this is a property that applies to all “over-the-air” values, it makes sense to include a general statement towards the start of the section.  **Changes**:  **P75 line 24**. Append the following sentence to the first paragraph:  “  The over-the-air values can be transmitted in the clear while maintaining anonymity.  “ |
| 1033 | Philip Hawkes | 10.71.1 | 75.59 | Update this item to indicate that it applies to individually addess frames, and identify processing of affiliated AP addresses when BPE is enabled. | The Address 1 field and/or the Address 2 field of individually address frames are set to a temporary random MAC address for the affiliated STA of the non-AP MLD on the link on which the frame is transmitted and, if the AP MLD has BPE enabled, then a temporary random MAC address for the affiliated AP of the AP MLD on the link on which the frame is transmitted. | **Rejected**  **Discussion**: The identified text is deleted by CID #223. |
| 1034 | Philip Hawkes | 10.71.1 | 75.62 | There is no text about group addressed frames. | Insert the following bullet in the list: - For group addressed frames transmitted by an AP MLD with BPE enabled, the Address 1 field transformed into over the air values that can be safely transmitted in the clear while maintaining anonymity. and the Address 2 field is set to a temporary random MAC address for the affiliated AP of the AP MLD on the link on which the frame is transmitted. | **Rejected**  **Discussion**: The identified text is deleted by CID #223. |
| 1035 | Philip Hawkes | 10.71.1 | 75.62 | There is no text about Timestamp anonymization when BPE is enabled | Append the following bullet to the list: - If the AP MLD has BPE enabled, then the Timestamp in Privacy Beacon frames are transformed into over the air values that can be safely transmitted in the clear while maintaining anonymity. | **Rejected**  **Discussion**: The identified text is deleted by CID #223. |
| 516 | Mark RISON | 10.71.1 | 75.63 | "The intended receiving MLD" is normally just known as "The receiving MLD" | Change as suggested | **Rejected**  **Discussion**: The identified text is deleted by CID #223. |
| 941 | Robert Stacey | 10.71.1 | 75.63 | The word "intended" in "intended receiving" is superfluous. If the intended receiving MLD does not receive anything how can it know what it is supposed to do? It only makes sense to define behavior for the device that actually receives something. | Delete "intended" | **Rejected**  **Discussion**: The identified text is deleted by CID #223. |
| 795 | John Wullert | 10.71.1 | 75.65 | When used as a single adjective, "over the air" should be hyphenated | Change "over the air" to "over-the-air" | **Rejected**  **Discussion**: The identified text is deleted by CID #223. |
| 796 | John Wullert | 10.71.1 | 76.01 | When used as a single adjective, "over the air" should be hyphenated | Change "over the air" to "over-the-air" | **Rejected**  **Discussion**: The identified text is deleted by CID #223. |
| 1036 | Philip Hawkes | 10.71.1 | 76.01 | Update this item to indicate that it applies to individually addess frames, and identify processing of affiliated AP addresses when BPE is enabled. | Replace the bullet text with the following: During address filtering of individually addressed frames, the over the air value(s) in the Address 1 field and/or the Address 2 field are matched to the temporary random MAC address for the affiliated STA of the non-AP MLD on the link on which the frame is transmitted and, if the AP MLD has BPE enable, the temporary random MAC address for the affiliated AP of the AP MLD on the link on which the frame is transmitted. | **Rejected**  **Discussion**: The identified text is deleted by CID #223. |
| 1037 | Philip Hawkes | 10.71.1 | 76.04 | There is no text about filtering group addressed frames. | Insert the following bullet in the list: During address filtering of group addressed frames transmitted by an AP MLD with BPE enabled, the over the air value in the Address 2 field is matched to a temporary random MAC address for the affiliated AP of the AP MLD on the link on which the frame is transmitted, and the the over the air value in the Address 1 field is transformed back to the original group address assigned by the AP MLD. | **Rejected**  **Discussion**: The identified text is deleted by CID #223. |
| 797 | John Wullert | 10.71.1 | 76.05 | When used as a single adjective, "over the air" should be hyphenated | Change "over the air" to "over-the-air" | **Rejected**  **Discussion**: The identified text is deleted by CID #223. |
| 1038 | Philip Hawkes | 10.71.1 | 76.07 | There is no text about Timestamp anonymization when BPE is enabled | Append the following bullet to the list: - If the AP MLD has BPE enabled, then the over the air values for the sequence Timestamp in Privacy Beacon frames are transformed back t the original timestamp assigned by the AP MLD. | **Rejected**  **Discussion**: The identified text is deleted by CID #223. |
|  |  |  |  |  |  |  |
| 225 | Jarkko Kneckt | 10.71.1 | 76.19 | Introduction should describe how SA and DA can be used for STA tracking. | Please add justifications for SA and DA protection to the introduction. | **Revised**  **Discussion:** Text added to 4.5.4.10a.  **Changes**: **p25 line 08:** (End of 4.5.4.10a) Append new text |
| 957 | Robert Stacey | 10.71.1 | 76.19 | When writing a requirement, it is better to use the singular. The plural is not implementable or testable (an implementor has design control over one implementation not all implementations). Also, if you define one way of doing something it applies in all instances. Finally, introduce the requirements with the statement in the note -- it help understanding. | Replace the two sentences at 76.19 and 76.21 as well as the NOTE with the following: "In order to provide confidentiality for the SA and DA, the following apply: - A CPE STA should transmit an MSDU in an A-MSDU. - A BPE STA shall transmit an MSDU in an A-MSDU." | **Revised**  **Discussion:** The first halves of these sentences are updated by CID #129. The important change from this CID is to replace “every MSDU” with “an MSDU”  **Changes:**  **P76 line 19**:  Replace  “every MSDU”  With  “an MSDU”  **P76 line 21**:  Replace  “every MSDU”  With  “an MSDU” |
| 798 | John Wullert | 10.71.1 | 76.19 | Requirements indicate that MSDUs should/shall be transmitted in A-MSDUs. It is not totally clear whether these requirements hold when a STA has only a single MSDU to transmit. | Revise requirements on CPE STAs and BPE STAs to clarify handling of single MSDUs. (Could be added as a note.) | **Revised**  **Discussion:** Addressed by CID #517 |
| 517 | Mark RISON | 10.71.1 | 76.23 | But it could be an A-MSDU with just one MSDU | Add to the NOTE: "An A-MSDU can contain a single MSDU." | **Revised**  **Discussion:** Agreed in principle. Suggest moving include the contents of this note, and a summary of the preceding normative requirements on using A-MSDU, in new description of FA mechanisms added at page 75 line 51  **Changes**:  (10.71.1)  **Page 75 line 51**  Include the following text:  “  —Confidentiality of SA and DA (optional for CPE FA and mandatory for BPE FA) is provided by transmitting an MSDU in an A-MSDU, noting that an A-MSDU can contain a single MSDU.  ”  **Page 76 line 23**  Delete the note. |
| 128 | Chaoming Luo | 10.71.6.1 | 90.01 | The address filtering rules imply that a BPE non-AP MLD shall be a CPE non-AP MLD, is that true? | Add text to clarify that. | **Revised**  **Discussion**: Correct, BPE FA mechanisms include all CPE mechanisms.  Include this  (a) as part of the new text introduced by CID #223 describing the FA mechanisms (P75 line 51)  (b) As part of the new note introduced by CIDs #130/#131 on using BPE prefix for AP MLD and non-AP MLD (P76 line 17)  **P75 line 51 to P76 line6**  Include the following text:  “  BPE FA mechanisms include all CPE FA mechanisms…  “  **P76 line 17:**  Include the following text as part of using BPE prefix for AP MLD and non-AP MLD:  “  noting that that this set of mechanisms includes all CPE FA mechanisms.  “ |
| 129 | Chaoming Luo | 10.71.6.1 | 89.35 | It's not clear how is CPE enabled or not enabled, and also not clear how is BPE enabled or not enabled. | Add Operation element or dot11 varibles to enable/disable CPE and BPE. | **Revised**  **Discussion:** Define a new MIB dot11FrameAnonymizationMechnismsActivated with three options: none(0), cpe(1), bpe (2).  **Changes:**  Annex C.3 (MIB details)  **Location to be chosen by editor.**  Add MIB dot11FrameAnonymizationMechnismsActivated  **P76 line 17:**  Add text: “  For all operations described in clause 10.71, dot11FrameAnonymizationMechanismActivated shall be present and the value shall not be none(1), unless otherwise noted.  “  **P76 line 19:**  Replace  “All CPE STAs”  With  “An MLD for which dot11FrameAnonymizationMechanismActivated is cpe(1)…”  **P76 line 21:**  Replace  “All BPE STAs”  With  “An MLD for which dot11FrameAnonymizationMechanismActivated is bpe(1)…” |
| 130 | Chaoming Luo | 10.71.6.1 | 90.39 | Change "a non-AP MLD" to "a CPE non-AP MLD" | As in comment | **Revised**  **Discussion**: Easier to clarify in 10.71**.**1 rules for prefixing AP MLD and non-AP MLD.  **Changes**  (10.71.1)  **P75 line 18**. Add the following note:  “  NOTE 1— In the remainder of clause 10.71 the following rules are used for prefixes for the terms MLD, AP MLD and non-AP MLD. A prefix is not needed to indicate that dot11FrameAnonymizationMechanismActivated is equal to cpe(1) (that is, to indicate that only CPE FA operations are enabled). However, a “BPE” prefix is added to indicate that dot11FrameAnonymizationMechanismActivated is equal to bpe(2) (that is, to indicate that only BPE FA operations are enabled, noting that noting that this set of mechanisms includes all CPE FA mechanisms). “  This change also addresses CID #131 |
| 131 | Chaoming Luo | 10.71.6.1 | 90.46 | Change "a AP MLD" to "a CPE AP MLD" | As in comment | **Revised**  **Discussion**: This CID is addressed by CID #30.  **Changes**: See CID #131. |

**Proposed spec text:**

***The baseline for this text is Draft P802.11bi\_D1.2.***

***TGbi editor: Apply the following changes to the heading 4.5.4.10a (Enhanced Data Privacy (EDP) enhancements), starting at page 24 line 61.****Addresses CIDs: #223, #225*

The CPE frame anonymization mechanisms reduce the availability of information about a non-AP MLD (such as the MAC address(es) of its affiliated STAs) during an association. (#223, #881, #304, #771, #297)

The BPE frame anonymization mechanisms reduce the availability of information about an AP MLD and its associated non-AP MLDs (such as the MAC address of its affiliated APs, the ESS to which it belongs, and its group addresses) that is revealed to third party observers. (#223, #789, #882) A BPE AP MLD can protect the content of its Beacon frames and only be discoverable by BPE non-AP MLDs that are configured to recognize the BPE AP MLD. A BPE EDP AP MLD and its associated non-AP MLDs can change their OTA MAC addresses and other trackable fields for both unicast and group transmissions. (#11, #382, #385, #387, #388, #389, #787, #789, #904, #297)

NOTE—EDP features might be generally described with MLO terminology, but separate descriptions are provided for individual features to explain when the behavior(#Ed) of MLO and non-MLO devices will differ.(#788)

A third party can also determine the long-term presence of a person by exploiting other unencrypted fields and elements that contain static or predictable values that are not assigned to the transmitter or receiver. For example, the SA (or DA respectively), when present, provides the MAC address of the source (or destination respectively) of the frame when the source is distinct from the transmitter (or the destination is distinct from the receiver respectively). These MAC addresses can remain unchanged for a relatively long time or might never change. If SA and/or DA are not encrypted, the frequencies of SA and/or DA might be used to profile the transmitter and/or receiver. FA transmits MSDUs in A-MSDUs to mitigate such profiling. (#225)

***TGbi editor: The following changes to 10.71.1 (Introduction).***

***TGbi editor: Apply the following changes starting at page 75 line 23.****Addresses CIDs: #156, #221, #1024*

Frame anonymization (FA) is an EDP feature available when MLO is enabled. (#156, #221 #1024)

***TGbi editor: Append the following text to the end of the paragraph starting at page 75 line 23, after applying all other changes to this paragraph.****Addresses CIDs: #514, #515*

The over-the-air values can be transmitted in the clear while maintaining anonymity. (#514, #515)

***TGbi editor: Apply the following changes at page 75 line 51 to page 76 line 06.****Addresses CIDs: #128, #223, #224, #515, #517, #798, #1031, #1032*

(#515) (#223)

FA operations comprise client privacy enhancement frame anonymization (CPE FA) mechanisms and BSS privacy enhancement frame anonymization (BPE FA) mechanisms: (#223, #1031)

* Establishing per-EDP-epoch frame anonymization parameter sets (FA parameter sets) as described in 10.71.4 (Establishing frame anonymization parameter sets).
* The CPE FA mechanisms mitigate detection of a non-AP MLD. The CPE FA mechanisms are the “baseline” FA operations. The CPE FA mechanisms comprise:
* EDP epoch operation for the non-AP MLD and AP MLD agreeing on timing for EDP epochs, as described in 10.71.2 (EDP epoch operation).
* The AP MLD assigns the non-AP MLD a temporary, per-EDP-Epoch AID (see 10.71.7 (Frame anonymization and AID)) that is then used in AID fields and in fields and elements derived from the AID. (#223, #1032)
* CPE MAC header anonymization applied to individually addressed frames, as described in 10.71.5 (MAC header anonymization and transmitting functions) and 10.71.6 (MAC header anonymization and receiving functions), using CPE MAC header anonymization parameter sets established as described in 10.71.3 (Establishing CPE MAC header anonymization parameter sets).(#223, #224)
* BPE FA operations mitigate detection of an AP MLD and its associated non-AP MLDs (#1031). If an AP MLD has BPE FA operations enabled, then the AP MLD only permits associating non-AP MLDs that have BPE FA enabled. BPE FA mechanisms include all CPE FA mechanisms, (#128) with the additional BPE FA mechanism comprising: (#223):
* BPE MAC header anonymization applied to individually addressed frames, group addressed frames and Privacy Beacons, as described in in 10.71.5 (MAC header anonymization and transmitting functions) and 10.71.6 (MAC header anonymization and receiving functions), using BPE MAC header anonymization parameter sets established as described in 10.71.4 (Establishing bPE MAC header anonymization parameter sets). (#223, #224)
* Confidentiality of SA and DA (optional for CPE FA and mandatory for BPE FA) is provided by transmitting an MSDU in an A-MSDU, noting that an A-MSDU can contain a single MSDU. (#223, #517, #798)

***TGbi editor: Insert the following text at page 76 line 17.****Addresses CIDs: #128, #129, #130, 131, #156*

For all operations described in clause 10.71, dot11FrameAnonymizationMechanismActivated shall be present and the value shall not be none(1), unless otherwise noted. (#129)

NOTE 1— In the remainder of clause 10.71 the following rules are used for prefixes for the terms MLD, AP MLD and non-AP MLD. A prefix is not needed to indicate that dot11FrameAnonymizationMechanismActivated is equal to cpe(1) (that is, to indicate that only CPE FA mechanisms are enabled). However, a “BPE” prefix is added to indicate that dot11FrameAnonymizationMechanismActivated is equal to bpe(2) (that is, to indicate that only BPE FA mechanisms are enabled, noting that that this set of mechanisms includes all CPE FA mechanisms). (#128, #130, #131)

The value of dot11FrameAnonymizationMechanismsActivated shall be cpe(1) or bpe(2) only if both dot11MultiLinkActivated and dot11DSMACAddressActivated are true. (#156)

***TGbi editor: Apply the following changes starting at page 76 line 19.****Addresses CIDs: #129, #957*

An MLD for which dot11FrameAnonymizationMechanismActivated is cpe(1) should transmit an MSDU in an A-MSDU. (#129, #957)

***TGbi editor: Apply the following changes starting at page 76 line 21.****Addresses CIDs: #129, #957*

An MLD for which dot11FrameAnonymizationMechanismActivated is bpe(2) shall transmit an MSDU in an A-MSDU. (#129, #957)

***TGbi editor: Add the following MIB to Annex C.3 (MIB).****Addresses CIDs: #129*

dot11FrameAnonymizationMechanismsActivated OBJECT-TYPE

SYNTAX INTEGER { none(0), cpe(1), bpe(2) }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable.

It is written by an external management entity.

This attribute identifies enhanced data privacy (EDP) frame anonymization (FA) mechanisms (10.71 (Frame anonymization)) that the station has enabled.

When equal to none(0), no FA mechanisms are enabled.

When equal to cpe(1), only the client privacy enhancements frame anonymization (CPE FA) mechanisms are enabled.

When equal to bpe(2), the BSS privacy enhancements frame anonymization (BPE FA) mechanisms are enabled, noting that this set of mechanisms includes all CPE FA mechanisms."

::= { dot11EDPStationConfigEntry <Editor to select number> }(#129)