IEEE P802.11  
Wireless LANs

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| 11bi D2.0 CRs in 10.71.4 and 10.71.5.5 | | | | |
| Date: 2025-09-11 | | | | |
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Abstract

This submission proposes resolutions for the following CIDs:

2246, 2411, 2412, 2042, 2413, 2423.

Revisions:

* Rev 0: Initial version of the document.

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 TGbi D2.0 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbi D2.0 Draft. (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents). TGbi Editor: Editing instructions preceded by “TGbi Editor” are instructions to the TGbi editor to modify existing material in the TGbi draft. As a result of adopting the changes, the TGbi editor will execute the instructions rather than copy them to the TGbi Draft.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 2246 | 10.71.4 | 102.25 | Clause 10.71.4 solely talks about BPE MHA parameters, it's strange to state how is CPE MHA parameter sets created here. | Remove "The creation of the CPE MHA parameter sets is described in 10.71.3 (Establishing CPE MAC header anonymization parameter sets)." | Accepted.  Note: TGbi editor to make the changes shown in the latest version of 11-25/1630 under all headings that include CID 2246 |
| 2411 | 10.71.4 | 105.24 | There should be a "BPE" prefix before any occurrence of "AP MLD" and "non-AP MLD" in this clause. | Ensure there is a "BPE" prefix before any occurance of "AP MLD" and "non-AP MLD" within this section. | Revised  Note: TGbi editor to make the changes shown in the latest version of 11-25/1630 under all headings that include CID 2411 |
| 2412 | 10.71.4 | 105.38 | Should the BPE\_MHA\_block formula include a per-BSS offset parameter "p" to align with the CPE\_MHA\_block formula at page 102 line 7? If yes, then (a) this line needs updating, and (b) the parameter "p" needs to be added to the description (maybe between lines 54 and 55) | (a) At line 38, replace "(n EpochInterval)" with "((n + p) EpochInterval)" (b) p is the value of the latest exchanged BPE AP MLD Specific Collision Epoch Offset field if received and if n is greater or equal to colliding epoch number c (see 10.71.2.5 (OTA MAC address collision avoidance); otherwise, p equals 0. | Rejected  The “p” value is the offset that a non-AP MLD uses whe avoiding collisions. But Note 2 in 10.71.2.5 clarifies that the AP does not care about its own BSSID colliding with something else, so “p” is not needed for the AP. |
| 2042 | 10.71.4 | 105.62 | "as shown in the tables below". Should spell out what tables. Also Tables 10-40k and 10-40l are in the wrong clause. Need to be moved. | "as shown in Table 10-40h, Table 10-40i, Table 10-40j, Table 10-40k, and Table 10-40l". Also move Tables 10-40k and 10-40l so that they are not in the middle of the next clause. | Revised  TGbi editor to make the changes shown in the latest version of 11-25/1630 under all headings that include CID 2042 |
| 2413 | 10.71.4 | 105.64 | Regarding "The generation of the full 48-bit EPP\_AP\_address is defined in 10.71.5.4 (Addressing)." This is correct for the transmitter, but the generation at the receiver is defined in 10.71.6.1 (General) | Replace the identifier text with: "The generation of the full 48-bit EPP\_AP\_address at a transmitter is defined in 10.71.5.4 (Addressing). The generation of the full 48-bit EPP\_AP\_address at a receiver is defined in 10.71.6.1 (General)." | Revised  TGbi editor to make the changes shown in the latest version of 11-25/1630 under all headings that include CID 2413 |
| 2423 | 10.71.5.5 | 110.57 | Regarding the text "the BPE MHA parameter set selected for the frame": Other subclauses of 10.71.5 use the language "applicable BPE MHA parameter set". Align this text with other clauses. | Replace the identified text with: "the applicable BPE MHA parameter set". | Accepted |

**Discussion**

Clauses before addressing CIDs

**10.71.4 Establishing BPE MAC header anonymization parameter sets**

This subclause describes how an AP MLD and associated non-AP MLD establish the BPE MHA parameter set for each EPP epoch for the BPE AP MLD and the non-AP MLD. The creation of the CPE MHA parameter sets is described in 10.71.3 (Establishing CPE MAC header anonymization parameter sets). The non-AP MLD and AP MLD establish the EPP epochs used for frame anonymization as described in 10.71.8 (BSS privacy enhancements operations)10.71.8 (BSS Privacy Operations).

All associated BPE non-AP MLDs and the BPE AP MLD shall generate BPE MHA parameters for a given EPP epoch by computing a single pseudorandom BPE\_MHA\_block which is partitioned into a set of EPP BP frame anonymization parameters according to the following tables.

For a given EPP epoch, the BPE\_MHA\_block shall be generated as:

BPE\_MHA\_block = KDF-*Hash*-*Length* (PGTK, “BPE\_MHA\_block”, Seed + (*n* × EpochInterval)),

where

KDF-*Hash*-*Length* is the key derivation function as defined in 12.7.1.6.2 (Key derivation

function (KDF)) using the hash algorithm identified by the AKM suite

selector (see Table 9-190 (AKM suite selectors))

PGTK is the Privacy Group Transient Key

*n* is the current number of the EPP epoch in the EPP epoch sequence as

defined in 10.71.2.4 (EPP Epoch Start Time Computation)

*Length* is the total number of bits to derive. A total of 960 bits are derived for a

BPE\_MHA\_block.

Seed is the value of the Group Epoch Seed field of the received EPP Epoch Settings

field.

The BPE offsets for the Group PN, SNS1 DL, SNS11 DL and Timestamp fields together with the anonymized BPE AP link addresses are created from the BPE\_MHA\_block. The offsets and the AP link addresses have static assignments within the BPE\_MHA\_block as shown in the tables below.

|  |  |  |
| --- | --- | --- |
| **Extracting EPP\_PN\_offset values from BPE\_MHA\_block** |  |  |
| **48-bit sub-block of the BPE\_MHA\_block** | **Value** |  |
| 0:47 | EPP\_Group\_PN\_offset |  |
| **Extracting EPP\_AP\_address values from the BPE\_MHA\_block** |  |  |
| **48-bit sub-block of the BPE\_MHA\_block** | **Sub-block Bits [0:45]** | **Sub-block**  **Bits [46:47]** |
| 48:95 | EPP\_AP\_address [0:45] for Link ID 0 | Not used |
| 96:143 | EPP\_AP\_address [0:45] for Link ID 1 | Not used |
| 144:191 | EPP\_AP\_address [0:45] for Link ID 2 | Not used |
| 192:239 | EPP\_AP\_address [0:45] for Link ID 3 | Not used |
| 240:287 | EPP\_AP\_address [0:45] for Link ID 4 | Not used |
| 288:335 | EPP\_AP\_address [0:45] for Link ID 5 | Not used |
| 336:383 | EPP\_AP\_address [0:45] for link ID 6 | Not used |
| 384:431 | EPP\_AP\_address [0:45] for link ID 7 | Not used |
| 432:479 | EPP\_AP\_address [0:45] for link ID 8 | Not used |
| 480:527 | EPP\_AP\_address [0:45] for link ID 9 | Not used |
| 528:575 | EPP\_AP\_address [0:45] for link ID 10 | Not used |
| 576:623 | EPP\_AP\_address [0:45] for link ID 11 | Not used |
| 624:671 | EPP\_AP\_address [0:45] for link ID 12 | Not used |
| 672:719 | EPP\_AP\_address [0:45] for link ID 13 | Not used |
| 720:767 | EPP\_AP\_address [0:45] for link ID 14 | Not used |

NOTE—Only 46 bits of each EPP\_AP\_address are extracted from the BPE\_MHA\_block. The generation of the full 48-bit EPP\_AP\_address is defined in 10.71.5.4 (Addressing).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Extracting EPP\_Group\_Anonymization\_Offset from BPE\_MHA\_Block** |  |  |  |  |
| **48-bit sub-block of the BPE\_MHA\_block** | **Sub-block Bits [0:45]** | **Sub-block Bits [46:47]** |  |  |
| 768:815 | EPP\_Group\_Anonymization\_Offset | Not used |  |  |
| **Extracting EPP\_SN\_offset values for SN1 and SNS 11 from the BPE\_MHA\_block** |  |  |  |  |
| **48-bit sub-block of the BPE\_MHA\_block**Not used | **Sub-block Bits [0:11]** | **Sub-block Bits [12:23]** | **Sub-block Bits [24:35]** | **Sub-block Bits [36:47]** |
|  | EPP\_SN\_offset values for SNS1 | EPP\_SN\_offset values for SNS11 |  |  |
| 816:863 | Not used | Value for frames transmitted by  AP MLD | Not used | Value for frames transmitted by  AP MLD |
| **Extracting Timestamp Offset from the BPE\_MHA\_block** |  |  |  |  |
| **48-bit sub-block of the BPE\_MHA\_block** | **Sub-block Bits [0:63]** | **Sub-block Bits [64:95]** |  |  |
| 864:959 | Timestamp offset | Not used |  |  |

**10.71.5.5 Timestamp anonymization**

NOTE—If the AP MLD has BPE FA mechanisms enabled, then the applicable BPE MHA parameter set is determined in 10.71.5.1 (MAC header anonymization parameter set selection).

For Privacy Beacon frames, the transmitter shall compute an over-the-air Timestamp (OTA\_Timestamp) value from the Timestamp value of the frame as follows:

OTA\_Timestamp = (Timestamp + EPP\_Timestamp\_offset) mod 264,

where EPP\_Timestamp\_offset is the single EPP\_Timestamp\_offset value in the BPE MHA parameter set selected for the frame.

The BPE AP shall transmit Privacy Beacon frames over the air using the OTA\_Timestamp value in the Timestamp field (see 9.3.4.4 (Privacy Beacon frame format)).

NOTE—the sum Timestamp + EPP\_Timestamp\_offset may occasionally exceed 264 and wrap. This event does not affect the BPE non AP MLD, as it does not use OTSF, but the interbal Timestamp for its operations.

CID 2246

Accepted

Discussion: there is a parallel sentence in 10.71.3, these were usueful as we were building the mechanic, but the need to refer to other clauses about something else is unclear.

(in 10.71.3: This subclause describes how an AP MLD and associated non-AP MLD establish the CPE MHA parameter set for each EPP epoch for the CPE non-AP MLD. The creation of the BPE MHA parameter sets is described in 10.71.4 (Establishing BPE MAC header anonymization parameter sets).

This subclause describes how an AP MLD and associated non-AP MLD establish the BPE MHA parameter set for each EPP epoch for the BPE AP MLD and the non-AP MLD. ~~The creation of the CPE MHA parameter sets is described in 10.71.3 (Establishing CPE MAC header anonymization parameter sets~~).(#2246) The non-AP MLD and AP MLD establish the EPP epochs used for frame anonymization as described in 10.71.8 (BSS privacy enhancements operations)10.71.8 (BSS Privacy Operations).

CID 2411

Revised

**10.71.4 Establishing BPE MAC header anonymization parameter sets**

This subclause describes how a~~n~~ BPE (#2411) AP MLD and associated BPE (#2411) non-AP MLD establish the BPE MHA parameter set for each EPP epoch for the BPE AP MLD and the BPE (#2411) non-AP MLD. The BPE (#2411) non-AP MLD and BPE (#2411) AP MLD establish the EPP epochs used for frame anonymization as described in 10.71.8 (BSS privacy enhancements operations)10.71.8 (BSS Privacy Operations).

All associated BPE non-AP MLDs and the BPE AP MLD shall generate BPE MHA parameters for a given EPP epoch by computing a single pseudorandom BPE\_MHA\_block which is partitioned into a set of EPP BP frame anonymization parameters according to the following tables.

For a given EPP epoch, the BPE\_MHA\_block shall be generated as:

BPE\_MHA\_block = KDF-*Hash*-*Length* (PGTK, “BPE\_MHA\_block”, Seed + (*n* × EpochInterval)),

where

KDF-*Hash*-*Length* is the key derivation function as defined in 12.7.1.6.2 (Key derivation

function (KDF)) using the hash algorithm identified by the AKM suite

selector (see Table 9-190 (AKM suite selectors))

PGTK is the Privacy Group Transient Key

*n* is the current number of the EPP epoch in the EPP epoch sequence as

defined in 10.71.2.4 (EPP Epoch Start Time Computation)

*Length* is the total number of bits to derive. A total of 960 bits are derived for a

BPE\_MHA\_block.

Seed is the value of the Group Epoch Seed field of the received EPP Epoch Settings

field.

The BPE offsets for the Group PN, SNS1 DL, SNS11 DL and Timestamp fields together with the anonymized BPE AP link addresses are created from the BPE\_MHA\_block. The offsets and the BPE (#2411) AP link addresses have static assignments within the BPE\_MHA\_block as shown in the tables below.

|  |  |  |
| --- | --- | --- |
| **Extracting EPP\_PN\_offset values from BPE\_MHA\_block** |  |  |
| **48-bit sub-block of the BPE\_MHA\_block** | **Value** |  |
| 0:47 | EPP\_Group\_PN\_offset |  |
| **Extracting EPP\_AP\_address values from the BPE\_MHA\_block** |  |  |
| **48-bit sub-block of the BPE\_MHA\_block** | **Sub-block Bits [0:45]** | **Sub-block**  **Bits [46:47]** |
| 48:95 | EPP\_AP\_address [0:45] for Link ID 0 | Not used |
| 96:143 | EPP\_AP\_address [0:45] for Link ID 1 | Not used |
| 144:191 | EPP\_AP\_address [0:45] for Link ID 2 | Not used |
| 192:239 | EPP\_AP\_address [0:45] for Link ID 3 | Not used |
| 240:287 | EPP\_AP\_address [0:45] for Link ID 4 | Not used |
| 288:335 | EPP\_AP\_address [0:45] for Link ID 5 | Not used |
| 336:383 | EPP\_AP\_address [0:45] for link ID 6 | Not used |
| 384:431 | EPP\_AP\_address [0:45] for link ID 7 | Not used |
| 432:479 | EPP\_AP\_address [0:45] for link ID 8 | Not used |
| 480:527 | EPP\_AP\_address [0:45] for link ID 9 | Not used |
| 528:575 | EPP\_AP\_address [0:45] for link ID 10 | Not used |
| 576:623 | EPP\_AP\_address [0:45] for link ID 11 | Not used |
| 624:671 | EPP\_AP\_address [0:45] for link ID 12 | Not used |
| 672:719 | EPP\_AP\_address [0:45] for link ID 13 | Not used |
| 720:767 | EPP\_AP\_address [0:45] for link ID 14 | Not used |

NOTE—Only 46 bits of each EPP\_AP\_address are extracted from the BPE\_MHA\_block. The generation of the full 48-bit EPP\_AP\_address is defined in 10.71.5.4 (Addressing).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Extracting EPP\_Group\_Anonymization\_Offset from BPE\_MHA\_Block** |  |  |  |  |
| **48-bit sub-block of the BPE\_MHA\_block** | **Sub-block Bits [0:45]** | **Sub-block Bits [46:47]** |  |  |
| 768:815 | EPP\_Group\_Anonymization\_Offset | Not used |  |  |
| **Extracting EPP\_SN\_offset values for SN1 and SNS 11 from the BPE\_MHA\_block** |  |  |  |  |
| **48-bit sub-block of the BPE\_MHA\_block**Not used | **Sub-block Bits [0:11]** | **Sub-block Bits [12:23]** | **Sub-block Bits [24:35]** | **Sub-block Bits [36:47]** |
|  | EPP\_SN\_offset values for SNS1 | EPP\_SN\_offset values for SNS11 |  |  |
| 816:863 | Not used | Value for frames transmitted by  BPE (#2411) AP MLD | Not used | Value for frames transmitted by  BPE (#2411) AP MLD |
| **Extracting Timestamp Offset from the BPE\_MHA\_block** |  |  |  |  |
| **48-bit sub-block of the BPE\_MHA\_block** | **Sub-block Bits [0:63]** | **Sub-block Bits [64:95]** |  |  |
| 864:959 | Timestamp offset | Not used |  |  |

CID 2042

Revised

The BPE offsets for the Group PN, SNS1 DL, SNS11 DL and Timestamp fields together with the anonymized BPE AP link addresses are created from the BPE\_MHA\_block. The offsets and the BPE (#2411) AP link addresses have static assignments within the BPE\_MHA\_block as shown in ~~the tables below~~ Table 10-40h, Table 10-40i, Table 10-40j, Table 10-40k, and Table 10-40l. (#2042)

TGbi editor: please move Tables 10-40k and 10-40l so that they are not in the middle of the next clause.

CID 2413

Revised

NOTE—Only 46 bits of each EPP\_AP\_address are extracted from the BPE\_MHA\_block. The generation of the full 48-bit EPP\_AP\_address is defined in 10.71.5.4 (Addressing). The generation of the full 48-bit EPP\_AP\_address at a receiver is defined in 10.71.6.1 (General). (#2413)

CID 2423

Accepted

For Privacy Beacon frames, the transmitter shall compute an over-the-air Timestamp (OTA\_Timestamp) value from the Timestamp value of the frame as follows:

OTA\_Timestamp = (Timestamp + EPP\_Timestamp\_offset) mod 264,

where EPP\_Timestamp\_offset is the single EPP\_Timestamp\_offset value in the applicable (#2423) BPE MHA parameter set ~~selected for the frame~~.

The BPE AP shall transmit Privacy Beacon frames over the air using the OTA\_Timestamp value in the Timestamp field (see 9.3.4.4 (Privacy Beacon frame format)).

*TGbi editor: Modify clauses 10.71.4 and 10.71.5.5 as follows (track change on – changes from version after 11-25/626):*

TGbi editor: in clause 10.71.4, please move Tables 10-40k and 10-40l so that they are not in the middle of the next clause (10.71.5).

**10.71.4 Establishing BPE MAC header anonymization parameter sets**

This subclause describes how a BPE (#2411) AP MLD and associated BPE (#2411) non-AP MLD establish the BPE MHA parameter set for each EPP epoch for the BPE AP MLD and the BPE (#2411) non-AP MLD. (#2246) The BPE (#2411) non-AP MLD and BPE (#2411) AP MLD establish the EPP epochs used for frame anonymization as described in 10.71.8 (BSS privacy enhancements operations)10.71.8 (BSS Privacy Operations).

All associated BPE non-AP MLDs and the BPE AP MLD shall generate BPE MHA parameters for a given EPP epoch by computing a single pseudorandom BPE\_MHA\_block which is partitioned into a set of EPP BP frame anonymization parameters according to the following tables.

For a given EPP epoch, the BPE\_MHA\_block shall be generated as:

BPE\_MHA\_block = KDF-*Hash*-*Length* (PGTK, “BPE\_MHA\_block”, Seed + (*n* × EpochInterval)),

where

KDF-*Hash*-*Length* is the key derivation function as defined in 12.7.1.6.2 (Key derivation

function (KDF)) using the hash algorithm identified by the AKM suite

selector (see Table 9-190 (AKM suite selectors))

PGTK is the Privacy Group Transient Key

*n* is the current number of the EPP epoch in the EPP epoch sequence as

defined in 10.71.2.4 (EPP Epoch Start Time Computation)

*Length* is the total number of bits to derive. A total of 960 bits are derived for a

BPE\_MHA\_block.

Seed is the value of the Group Epoch Seed field of the received EPP Epoch Settings

field.

The BPE offsets for the Group PN, SNS1 DL, SNS11 DL and Timestamp fields together with the anonymized BPE AP link addresses are created from the BPE\_MHA\_block. The offsets and the BPE (#2411) AP link addresses have static assignments within the BPE\_MHA\_block as shown in Table 10-40h, Table 10-40i, Table 10-40j, Table 10-40k, and Table 10-40l. (#2042).

|  |  |  |
| --- | --- | --- |
| **Extracting EPP\_PN\_offset values from BPE\_MHA\_block** |  |  |
| **48-bit sub-block of the BPE\_MHA\_block** | **Value** |  |
| 0:47 | EPP\_Group\_PN\_offset |  |
| **Extracting EPP\_AP\_address values from the BPE\_MHA\_block** |  |  |
| **48-bit sub-block of the BPE\_MHA\_block** | **Sub-block Bits [0:45]** | **Sub-block**  **Bits [46:47]** |
| 48:95 | EPP\_AP\_address [0:45] for Link ID 0 | Not used |
| 96:143 | EPP\_AP\_address [0:45] for Link ID 1 | Not used |
| 144:191 | EPP\_AP\_address [0:45] for Link ID 2 | Not used |
| 192:239 | EPP\_AP\_address [0:45] for Link ID 3 | Not used |
| 240:287 | EPP\_AP\_address [0:45] for Link ID 4 | Not used |
| 288:335 | EPP\_AP\_address [0:45] for Link ID 5 | Not used |
| 336:383 | EPP\_AP\_address [0:45] for link ID 6 | Not used |
| 384:431 | EPP\_AP\_address [0:45] for link ID 7 | Not used |
| 432:479 | EPP\_AP\_address [0:45] for link ID 8 | Not used |
| 480:527 | EPP\_AP\_address [0:45] for link ID 9 | Not used |
| 528:575 | EPP\_AP\_address [0:45] for link ID 10 | Not used |
| 576:623 | EPP\_AP\_address [0:45] for link ID 11 | Not used |
| 624:671 | EPP\_AP\_address [0:45] for link ID 12 | Not used |
| 672:719 | EPP\_AP\_address [0:45] for link ID 13 | Not used |
| 720:767 | EPP\_AP\_address [0:45] for link ID 14 | Not used |

NOTE—Only 46 bits of each EPP\_AP\_address are extracted from the BPE\_MHA\_block. The generation of the full 48-bit EPP\_AP\_address is defined in 10.71.5.4 (Addressing). The generation of the full 48-bit EPP\_AP\_address at a receiver is defined in 10.71.6.1 (General). (#2413)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Extracting EPP\_Group\_Anonymization\_Offset from BPE\_MHA\_Block** |  |  |  |  |
| **48-bit sub-block of the BPE\_MHA\_block** | **Sub-block Bits [0:45]** | **Sub-block Bits [46:47]** |  |  |
| 768:815 | EPP\_Group\_Anonymization\_Offset | Not used |  |  |
| **Extracting EPP\_SN\_offset values for SN1 and SNS 11 from the BPE\_MHA\_block** |  |  |  |  |
| **48-bit sub-block of the BPE\_MHA\_block**Not used | **Sub-block Bits [0:11]** | **Sub-block Bits [12:23]** | **Sub-block Bits [24:35]** | **Sub-block Bits [36:47]** |
|  | EPP\_SN\_offset values for SNS1 | EPP\_SN\_offset values for SNS11 |  |  |
| 816:863 | Not used | Value for frames transmitted by  BPE (#2411) AP MLD | Not used | Value for frames transmitted by  BPE (#2411) AP MLD |
| **Extracting Timestamp Offset from the BPE\_MHA\_block** |  |  |  |  |
| **48-bit sub-block of the BPE\_MHA\_block** | **Sub-block Bits [0:63]** | **Sub-block Bits [64:95]** |  |  |
| 864:959 | Timestamp offset | Not used |  |  |

**10.71.5.5 Timestamp anonymization**

NOTE—If the AP MLD has BPE FA mechanisms enabled, then the applicable BPE MHA parameter set is determined in 10.71.5.1 (MAC header anonymization parameter set selection).

For Privacy Beacon frames, the transmitter shall compute an over-the-air Timestamp (OTA\_Timestamp) value from the Timestamp value of the frame as follows:

OTA\_Timestamp = (Timestamp + EPP\_Timestamp\_offset) mod 264,

where EPP\_Timestamp\_offset is the single EPP\_Timestamp\_offset value in the applicable (#2423) BPE MHA parameter set.

The BPE AP shall transmit Privacy Beacon frames over the air using the OTA\_Timestamp value in the Timestamp field (see 9.3.4.4 (Privacy Beacon frame format)).

NOTE—the sum Timestamp + EPP\_Timestamp\_offset may occasionally exceed 264 and wrap. This event does not affect the BPE non AP MLD, as it does not use OTSF, but the interbal Timestamp for its operations.