IEEE P802.11
Wireless LANs

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| 802.11bi – Technical comment resolution to 9.4.1.83 |
| Date: May 12, 2025 |
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 Abstract

This submission addresses the comments with CID:

26, 31, 33, 199, 206, 308, 309, 326, 331, 332, 426, 429, 438, 441, 444, 446, 450, 853, 855

**Comment Resolution**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Clause Number(C)** | **Page(C)** | **Line(C)** | **Comment** | **Proposed Change** | **Resolution** |
| 26 | 9.4.1.83 | 48 | 27 | "The Epoch Interval Length field contains the length of the EDP epoch, expressed in Epoch Interval Units, shown in Table 9-129g (Epoch Interval Units and epoch durations). Epoch Interval Length value 0 is reserved." The description fopr the Epoch Interval Unit field should be first described. then the Interval and then the Table. | Rewrite Cited text as "The Epoch Interval Unit field value defines the Epoch Interval Unit as shown in Table 9-129g. The Epoch Interval Length field contains the length of the EDP epoch, expressed in Epoch Interval Units. An Epoch Interval Length value 0 is reserved." | REVISEDEditor please implement comments tagged as [430] in document 25/925r2. |
| 31 | 9.4.1.83 | 48 | 57 | "The Minimum Epoch Pacing field signals the minimum epoch duration..." Not sure we use "signals" I think "indicates" is better, or even better, "is". | Edit cited text as follows:" The Minimum Epoch Pacing field signals value indicates the minimum epoch duration... | REVIEWEDEditor please perform the changes tagged with [196] in document with DCN 25/925r2. |
| 33 | 9.4.1.83 | 49 | 6 | "When present.the field signals an indicationof the number of affiliated STAs currently participating to this group EDP epoch on the current link." Is the real number or an estimate (i.e., and indication)? I assume the actual number.Also this is repeated at line 22, so at this line, you should simply refer to the Figure 9-207n. | Delete cited text and then add "The Number of Participating Affiliated STAs field format is shown in Figure 9-207n." | ACCEPT |
| 199 | 9.4.1.83 | 49 | 10 | Incorrect use of element and unclear sentence | Change to:"The Minimum Epoch Pacing field has the same format as the Epoch Interval field. | ACCEPTEditor please perform the changes tagged with [106] in document with DCN 25/925r2. |
| 206 | 9.4.1.83 | 49 | 44 | The field may be transmitted by CPE and BPE devices. CPE is not mentioned in other fields of the clause. | Remove 3\* "CPE" from lines 44-49. | ACCEPT  |
| 308 | 9.4.1.83 | 47 | 44 | The control field for the EDP Epoch Settings element does not follow the order of the fields in the frame. We should reorder it. | I will provide a contribution to solve this | REVISEDEditor please implement changes tagged with [439] in document with DCN 25/925r2 |
| 309 | 9.4.1.83 | 49 | 2 | Imho most of epochs will have an unlimited duration. Maybe we can avoid sending all time a 255 in the Epoch Remaining field and add a control bit stating if it is unlimited. | I will discuss if this is an acceptable solution and will provide a contribution if so. | REJECTThe group discussed about this and decided the gain vs complexity of this solution is not worth adding this modification. |
| 326 | 9.4.1.83 | 47 | 35 | field name needs to match Figure- EDP Epoch Settings Control field | Correct field name to EDP Epoch Settings Control field | REVISEDEditor please implement changes tagged as [193] in document 25/925r0. |
| 331 | 9.4.1.83 | 48 | 62 | Missing word? "used by the AP and each non-AP stations member of theEDP group" | Change to "used by the AP and each non-AP station that is a member of theEDP group" | ACCEPT |
| 332 | 9.4.1.83 | 49 | 28 | Clarify sentence: "When transmitted by a CPE AP, the AID Storage Size field indicates the minimum number of AID valuesrequired by a CPE non-AP MLD to be allowed to join in the EDP group." | Change to "When transmitted by a CPE AP, the AID Storage Size field indicates the minimum number of AID values a CPE non-AP MLD shall be able to store to be allowed to join in the EDP group." | REVISEDEditor please implement changes tagged as [332] in document with DCN 25/925r2. |
| 426 | 9.4.1.83 | 47 | 34 | "The EDP Epoch Settings field contains the EDP epoch parameters of an EDP epoch sequence for the non-AP MLD." but just above (line 3) we have something else | Delete the cited text | REVISEDEditor please implement the changes tagged with [23] in document 25/925r2 |
| 429 | 9.4.1.83 | 48 | 6 | "Each of the bits of the EDP Epoch Settings Control field indicate the presence of the corresponding field inthe EDP Epoch Settings field when set to 1 and its absence when set to 0.", yeah, but there's a confusing Epoch Interval field plonked in the middle | Move the Epoch Interval field to the start of the element | REVISEDEditor please implement changes tagged as [429] in document 25/925r2 |
| 438 | 9.4.1.83 | 48 | 57 | "The Minimum Epoch Pacing field" -- no such field | Maybe this is missing "Parameters" | REVISEDEditor please implement changes marked by [106] in 25/925r2 |
| 441 | 9.4.1.83 | 48 | 63 | It's not clear what "(PlannedTSFStartTime)" is | Delete the cited text | ACCEPT |
| 444 | 9.4.1.83 | 47 | 46 | "Participating Affiliated STAs Percentage Present" -- there is no Participating Affiliated STAs Percentage field | Delete this field | REJECTEDThere is such a field, as a subfield of the Number of Participating Affiliated STAs field. |
| 446 | 9.4.1.83 | 49 | 6 | "The Number of Participating Affiliated STAs field is optional" -- yeah, but so are most of the others, and the figure already shows this. Also "of" should be "Of" | Change "The Number of Participating Affiliated STAs field is optional. When present, the field " to "The Number Of Participating Affiliated STAs field ". Maybe for all such fields add ", if present" | REVISEDEditor please include the changes tagged as [446] in document 25/925r2. |
| 450 | 9.4.1.83 | 49 | 28 | "When transmitted by a CPE AP, the AID Storage Size field indicates the minimum number of AID values required by a CPE non-AP MLD to be allowed to join in the EDP group.When transmitted by a CPE non-AP MLD, the AID Storage Size field indicates the number of AID values that the non-AP MLD can store." -- not clear what contained if transmitted by other devices, e.g. BPE devices | As it says in the comment | REVISEDEditor please implement changes tagged with [206] and [332] in document 25/925r2. |
| 853 | 9.4.1.83 | 47 | 50 | The "First Epoch TSF Start time" field is always required for an EDP Epoch. I think the "present" bit is useless. | Please clarify or remove this bit | REJECTEDThe EDP element including the EDP Epoch Settings Control field can be used to signal desired Epoch parameters, in this case the First Epoch TSF Start time is not needed. |
| 855 | 9.4.1.83 | 47 | 50 | The "Group ID" field is always required for an EDP Epoch. I think the "present" bit is useless. | Please clarify or remove this bit | REJECTED, there are cases when the STA does not know the Group ID number, for example when creating it. |

**9.4.1.83 EDP Epoch Settings field**

The EDP Epoch Settings field format is shown in Figure 9-207n (EDP Epoch Settings field format).(#23)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | EDP Epoch Settings Control | EDP(#1012) Group ID | Epoch Interval | First Epoch TSF Start Time | Epoch Number Offset | Time Range | Epochs Remaining | Minimum Epoch Pacing(#106)  |
| Bits: | 16 | 0 or 8 | 16 | 0 or 64 | 0 or 8 | 0 or 16 | 0 or 16 | 0 or 16 |

|  |  |  |
| --- | --- | --- |
|  | Number Of Participating Affiliated STAs | AID Storage Size |
| Bits: | 0 or 8 or 16 or 24 | 0 or 16 |

**Figure 9-207k -- EDP Epoch Settings field format**

The EDP Epoch Settings field contains the EDP epoch parameters of an EDP epoch sequence for the non-AP MLD.

The EDP Epoch Settings(#193) Control field format is shown in Figure 9-207o (EDP Epoch Settings Control field format).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | EDP(#1012) Group ID Present | First Epoch TSF Start TimePresent | Epoch Number Offset Present [429] | Time RangePresent | Epochs RemainingPresent | Minimum Epoch Pacing Present(#106) [429] | Participating Affiliated STAs Count Present | Participating Affiliated STAs Percentage Present | AID Storage Size Present |
| Bits: | 1 | 1 |  | 1 | 1 | 1 | 1 | 1 | 1 |

(#24)

|  |  |
| --- | --- |
|  | Reserved |
| Bits: | 7 [429] |

**Figure 9-207l -- EDP Epoch Settings Control field format**

Each field in the EDP Epoch Settings Control field indicates the presence of the corresponding field in the EDP Epoch Settings field when set to 1 and its absence when set to 0.(#195)

The EDP(#1012) Group ID field contains(#425) an identifier of the EDP group. The value 0 indicates the default EDP(#1012) group. The value 255 is reserved.(#194)

The EDP Epoch Interval field format is shown in Figure 9-207p (Epoch Interval field format).(#25)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Epoch Interval Unit | Epoch Interval Length | Reserved |
| Bits: | 3 | 11 | 2 |

**Figure 9-207m—Epoch Interval field format**

The Epoch Interval Unit field indicates the units for the Epoch Interval Length field, and the Epoch Interval Length field contains the length of the EDP epoch as shown in Table 9-129s (Epoch Interval Units and epoch durations).(#430, #Ed)

Epoch Interval Length field(#433) value 0 is reserved.

|  |  |  |
| --- | --- | --- |
| **Epoch Interval Unit field value** | **Epoch Interval Unit** | **Max Epoch Duration (approx.)** |
| 0 | 1000 s | 23 d 16 h 36 min 40 s |
| 1 | 1 s | 34 min 7 s |
| 2-7 | Reserved | N/A |

**Table 9-129g—Epoch Interval Units and epoch durations**

The First Epoch TSF Start Time field(#27) contains the first epoch TSF start time presented as the TSF timer value of the link in which this field was sent (see 10.71.2.4 (EDP Epoch Start Time Computation)).(#81, #Ed, #196)

The Epoch Number Offset(#80) field value contains the epoch number offset(#80) between the AP MLD(#1001) epoch number and the non-AP MLD(#1001) epoch number (see 10.71.2.4 (EDP Epoch Start Time Computation)).

The Time Range field contains the range of values, expressed in epoch interval units as defined in Table 9-129s (Epoch Interval Units and epoch durations), used by the AP MLD and each non-AP MLDs that is a [331] member of the EDP group to determine a random delay added to the EDP epoch planned start time [441] as defined in 10.71.2.4 (EDP Epoch Start Time Computation).(#439, #430, #1001)

The Epochs Remaining field value indicates the number of EDP epochs left in the sequence after the current epoch finishes, except the value of 255 indicates that the epoch sequence duration is unlimited.(#439, #442, #202, #32, #Ed)

The Minimum Epoch Pacing field indicates the minimum epoch duration the non-AP MLD can support.(#196) The format of the Minimum Epoch Pacing field(#106) is the same as the Epoch Interval field.

[446] The Number of Participating Affiliated STAs field format is shown in Figure 9-207n [33].

|  |  |  |
| --- | --- | --- |
|  | Participating Affiliated STAs Count | Participating Affiliated STAs Percentage |
| Octets: | 2 | 1 |

**Figure 9-207n—Number of Participating Affiliated STAs field format**

The Participating Affiliated STAs Count field represents an indication of the number of affiliated non-AP MLDs(#1001) participating in the signaled EDP(#1012) group on the link. The Participating Affiliated STAs Percentage field, with values in the range of 0 to 100, represents an indication of the percentage of the associated affiliated non-AP MLDs(#1001) participating to the signalled EDP(#1012) group on the link. Values 101-255 are reserved.

When transmitted by a [206] AP MLD(#1001), the AID Storage Size field indicates the minimum number of AID values [332] a [206]non-AP MLD shall be able [332] to be allowed to join in the EDP group.

When transmitted by a [206]non-AP MLD, the AID Storage Size field indicates the number of AID values that the non-AP MLD can store.