IEEE P802.11  
Wireless LANs

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| 802.11bi – Resolution to CIDs regarding EDP Epoch Request/Response frames | | | | |
| Date: November 12, 2024 | | | | |
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| --- | --- | --- | --- | --- |
| 1013 | Chaoming Luo | non-AP MLD Specific Setting Epoch action frames are not defined. | Define them in clause 9. | REVISED  Incorporate changes in 1792r1. |
| 1014 | Chaoming Luo | EDP epoch setting protected action request frame is not defined. | Define it in clause 9. | REVISED  Incorporate changes in 1792r1. |
| 1015 | Chaoming Luo | EDP epoch setting protected action response frame is not defined. | Define it in clause 9. | REVISED  Incorporate changes in 1792r1. |
| 1060 | Antonio DeLaOlivaDelgado | Dialog token does not make sense in the element, it makes sense in the action frame | Remove Dialog Token from the element | REVISED  Solved in 1623r2 as part of the EDP Epoch Settings field. |
| 1062 | Antonio DeLaOlivaDelgado | There is not EDP Epoch Sequence Request frame | There is no frame right now defined for this purpose. Need to define it. | REVISED  Incorporate changes in 1792r1. |
| 1066 | Antonio DeLaOlivaDelgado | There is no Specific Epoch Setting action frame | Create frame? | REVISED  Incorporate changes in 1792r1 |
| 1115 | stephane baron | explict the protected action frames to be used, and provide references. | as in comment | REVISED  Incorporate changes in 1792r1 |
| 1119 | stephane baron | otaMAC collision warning action frame is not defined | commenter will bring a contribution to define the protected actions frames | REVISED  Incorporate changes in 1792r1 |
| 1167 | Patrice Nezou | EDP Epoch Sequence Request/Response frames are not defined. | The commenter will provide contribution to define them. | REVISED  Incorporate changes in 1792r1 |
| 1170 | Patrice Nezou | EDP Epoch Request/Response frames are not defined. | The commenter will provide contribution to define them. | REVISED  Incorporate changes in 1792r1 |

# Proposed resolution

**9.6.38 EDP Action frame details**

**9.6.38.1 EDP Action field**

---***Editor please add the following two rows to Table 9-628s*** *(CIDs* 1013, 1014, 1015, 1062, 1066, 1115, 1167, 1170)***---***

**Table 9-628s – EDP Action field values**

|  |  |
| --- | --- |
| Value | Meaning |
| 0 | Capabilities And Operation Parameters  Request |
| 1 | Capabilities And Operation Parameters  Response |
| 2 | EDP Group parameter frame |
| **3** | **EDP Epoch Request** |
| **4** | **EDP Epoch Response** |
| **5** | **otaMAC Collision Warning** |
| 6-255 | Reserved |

***-- Editor please add the following two clauses to 9.6.38*** *(CIDs* 1013, 1014, 1015, 1062, 1066, 1115, 1167, 1170)***--***

**9.6.38.5 EDP Epoch Request frame**

The EDP Epoch Request frame contains the information that a CPE STA provides an AP to request a new EDP epoch group, or to be assigned to a particular EDP epoch group, or to maintain its current EDP epoch group, as defined in 10.71.2.1 and 10.71.2.2.

**Table 9-628X—EDP Epoch Request frame Action field format**

|  |  |
| --- | --- |
| **Order** | **Meaning** |
| 0 | Category |
| 1 | EDP Action |
| 2 | Dialog Token |
| 3 | Epoch request |
| 4 | EDP Epoch Setting field |

The Category field is defined in 9.4.1.11 (Action field).

The EDP Action field is defined in 9.6.38.1.

The Dialog Token field is defined in 9.4.1.12 (Dialog Token field) and is set to a nonzero value to identify the request/response transaction.

The Epoch request field is defined in 9.4.1.XX.

The EDP Epoch Setting field is defined in 9.4.1.76.

**9.6.38.6 EDP Epoch Response frame**

The EDP Epoch Response frame contains the information that an AP provides a STA in response to the STA’s EDP Epoch Request frame.

**Table 9-628X—EDP Epoch Response frame Action field format**

|  |  |
| --- | --- |
| **Order** | **Meaning** |
| 0 | Category |
| 1 | EDP Action |
| 2 | Dialog Token |
| 3 | Status |
| 4 | EDP Epoch Setting field (Optional) |

The Category field is defined in 9.4.1.11 (Action field).

The EDP Action field is defined in 9.6.38.1.

The Dialog Token field is defined in 9.4.1.12 (Dialog Token field) and is set to a nonzero value to identify the request/response transaction.

The Status field is defined in 9.4.1.9.

The EDP Epoch Setting field is optional and defined in 9.4.1.76.

**9.6.38.7 otaMAC Collision Warning frame** (CID 1119)

The otaMAC Collision Warning frame is used to signal when an OTA MAC address expected to be used by an EDP non-AP MLD in an upcoming epoch is calculated to collide with the

MAC address of another STA.

**Table 9-628X—otaMAC Collision Warning frame Action field format**

|  |  |
| --- | --- |
| **Order** | **Meaning** |
| 0 | Category |
| 1 | EDP Action |
| 2 | OTA MAC Collision Warning element |

The Category field is defined in 9.4.1.11 (Action field).

The EDP Action field is defined in 9.6.38.1.

The OTA MAC Collision Warning element is defined in 9.4.2.338.

***-- Editor please add the following field to 9.4.1*** *(CIDs* 1013, 1014, 1015, 1062, 1066, 1115, 1167, 1170) ***--***

**9.4.1.XX Epoch request field**

The Epoch request field carries information on the action to be performed by the AP upon receiving an EDP Epoch Request frame.

The format of the Epoch request field is shown in Figure 9-XXX

|  |  |
| --- | --- |
|  | Epoch request |
| Bits: | 8 |

**Figure 9-XXX – Epoch request**

The possible values of the Epoch request field and their meaning are shown in Table XX:

**Table XX – Values for the Epoch request field**

|  |  |
| --- | --- |
| **Value** | **Meaning** |
| 0 | Reserved |
| 1 | Create |
| 2 | Join |
| 3 | Leave |
| 4-255 | Reserved |

***-- Editor please modify the Status Code field in clause 9.4.1.9 as follows****(CIDs* 1013, 1014, 1015, 1062, 1066, 1115, 1167, 1170) ***--***

**9.4.1.9 Status Code field**

***-- Editor please add the following new rows to Table 9-80--***

|  |  |  |
| --- | --- | --- |
| Status Code | Name | Meaning |
| <ANA> | SUCCESS\_SIMILAR\_EPOCH | The request to join or create a group epoch is successful but the epoch parameters are not exactly the requested |
| <ANA> | FAILURE\_ALREADY\_EXISTING\_EPOCH | The creation of the group epoch fails because the group already exists |
| <ANA> | FAILURE\_MAX\_NUM\_EPOCH\_REACH | Failure to create a group epoch because the maximum number of group epochs at the AP has been reached |