IEEE P802.11
Wireless LANs

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| 11bi D1.0 Misc CRs  |
| Date: 2025-07-24 |
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Abstract

This submission proposes resolutions for the following CIDs:

590, 932, 466, 467, 310, 936, 738, 739, 741, 745, 740.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: clarified resolution to one comment
* Rev 2: after offline feedback from commenters
* Rev 3: fixed a typo
* Rev 4: after July 29th meeting

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 D1.0 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbi D1.0 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** |
| 590 | 10.71.5.5 | 89.61 | "The dot11EDPEpochStartTimeMargin before and during the transition period (see 10.71.2.1 (General) and10.71.2.2 (EDP group operations)) from an old EDP epoch to a new EDP epoch of the BPE non-AP MLD, the affiliated STA of the BPE non-AP MLD and the affiliated AP of the BPE AP MLD (on a setup link of the BPE non-AP MLD) shall perform address filtering using:" is incredibly hard to understand | Perhaps "During the transition period, and for dot11blah before it, the blah shall"? | RevisedTGbi editor to make the changes shown in the latest version of 11-25/1370 under all headings that include CID 590 |
| 932 | 9.4.2.1 | 50.58 | "OTA MAC Collision Warning" is confusing - it could refer to MAC address collision or a collision on the medium. Best to be clear about it. | Suggest replacing, "OTA MAC Collision " with "OTA MAC Address Collision" in all occurences throughout the document | RejectedAlthough the proposal makes sense, the group concluded that trying to shoehorn the feature description in the frame name would cause more confusion than clarity (for example, “which MAC address collides?” and concluded that a shorter name was simpler, provided that the clause identifies clearly what collision is targeted, which is the case in draft 1.2 and later. |
| 466 | 9.4.2.240 | 60.46 | "A non-AP MLD sets the Group EDP EpochSupported field to 1 when dot11EDPGroupEpochActivated is true and sets it to 0 otherwise. " -- and what do things other than non-AP MLDs set this to? | As it says in the comment | RevisedAlign with next item in the table. TGbi editor to make the changes shown in the latest version of 11-25/1370 under all headings that include CID 466 |
| 467 | 9.4.2.240 | 60.46 | It's not at all clear to me that all of these things are RSN (extension) capabilities rather than plain (extended) capabilities | Move Group EDP Epoch Supported to the Extended Capabilities element | RejectedThe features are RSNXE by design, and are required to complete a trusted RSNA. |
| 310 | 9.4.2.349 | 62.23 | In Table 9-417aj, the non-AP MLD may ackowledge collision warning message but take no action. It is not clear to me what is the behavior associated to the no action taken. | I will provide a contribution to solve this. | RevisedThis was solved as part of CID 91 in 25-11/451. No further edit needed.  |
| 936 | 9.6.42.7 | 73.01 | Is there a reason why "OTA" and "MAC" are merged in the context of the frame format and in not other contexts , as "otaMAC" | Replace them with "OTA MAC" here and all other occurences | RevisedThis was a typo, already fixed in draft 1.2. |
| 738 | C.3 | 140.39 | "False indicates that the capability is present but is disabled." -- hm, so how do you indicate that the capability is not present? | Delete sentence, or add "This attribute is not present if the capability is not present." | Revised TGbi editor to make the changes shown in the latest version of 11-25/1370 under all headings that include CID 738 |
| 739 | C.3 | 140.56 | "does not filter out frames that use the current nor the next epoch parameters" is incredibly confusing. Ditto at 141.9 | Change to "accepts frames that use the current epoch parameters and those that use the next epoch parameters" | Accepted Note: TGbi editor to make the changes shown in the latest version of 11-25/1370 under all headings that include CID 739 |
| 741 | C.3 | 141.22 | Aren't EDP epoch groups assigned by the AP (though the STA can request a specific one)? If so, how can this be set locally? | As it says in the comment | Revised Delete MIB entry. TGbi editor to make the changes shown in the latest version of 11-25/1370 under all headings that include CID 741 |
| 745 | C.3 | 141.23 | We're not lawyers using feathers to write | Change "zero (0)" to "0" | RevisedThe entry was deleted with CID 741. TGbi editor to make the changes shown in the latest version of 11-25/1370 under all headings that include CID 741 |
| 740 | C.3 | 141.26 | Is "NULL" a valid MIB thing? Also missing space before } (also next line) | As it says in the comment | RevisedThe entry was deleted with CID 741. TGbi editor to make the changes shown in the latest version of 11-25/1370 under all headings that include CID 741. |

**Discussion**

CID 590

Revised

This is clause 10.71.6.1 (not 10.71.5.5):

**10.71.6.1 Address filtering**

Address filtering shall be applied per 10.2.8 (MAC data service) with the addressing clarifications in 10.71.5.4 (Addressing).

If CPE is enabled for the non-AP MLD and BPE is not enabled for the BSS, then for each setup link of the non-AP MLD:

During the dot11EDPEpochStartTimeMargin period and the transition period of the EDP epoch of the non-AP MLD (see 10.71.2.1 (General) and 10.71.2.2 (EDP group operations)), the affiliated STA of the non-AP MLD and the affiliated AP of the AP MLD of the setup link shall perform address filtering using:

the EDP\_STA\_address of the affiliated STA from the MAC header anonymization parameters (defined in 10.71.5.1 (MAC header anonymization parameter set selection)) of the old EDP epoch (if any), and the (fixed) address of the affiliated AP,

the EDP\_STA\_address of the affiliated STA from the MAC header anonymization parameters (if any) of the new EDP epoch, and the (fixed) address of the affiliated AP, and

for each group to which the affiliated STA is assigned, the (fixed) group address and the (fixed) address of the affiliated AP.

After this transition period and until the dot11EDPEpochStartTimeMargin period of the next EDP epoch of the non-AP MLD, the affiliated STA of the non-AP MLD and the affiliated AP of the AP MLD of the setup link shall perform address filtering using:

the EDP\_STA\_address of the affiliated STA from the MAC header anonymization parameters (if any) of the new EDP epoch, and the (fixed) address of the affiliated AP, and

for each group to which the affiliated STA is assigned, the (fixed) group address and the (fixed) address of the affiliated AP.

**The dot11EDPEpochStartTimeMargin before and during the transition period (see 10.71.2.1 (General) and 10.71.2.2 (EDP group operations)) from an old EDP epoch to a new EDP epoch of the BPE non-AP MLD, the affiliated STA of the BPE non-AP MLD and the affiliated AP of the BPE AP MLD (on a setup link of the BPE non-AP MLD) shall perform address filtering using:**

the EDP\_STA\_MAC and anonymized AP address from the MAC header anonymization parameters (if any) of the old EDP epoch,

the anonymized AP address and anonymized group address from the MAC header anonymization parameters (if any) of the old EDP epoch,

the EDP\_STA\_MAC and anonymized AP address from the MAC header anonymization parameters (if any) of the new EDP epoch, and

and the anonymized AP address and anonymized group address from the MAC header anonymization parameters (if any) of the new EDP epoch.

After this transition period, until the dot11EDPEpochStartTimeMargin before the start of the transition period of the next EDP epoch of the BPE group, the affiliated STA of the BPE non-AP MLD and the affiliated AP of the BPE AP MLD (on a setup link of the BPE non-AP MLD) shall perform address filtering using:

the EDP\_STA\_MAC and AP anonymized address from the MAC header anonymization parameters of the new EDP epoch, and

and the anonymized AP address and anonymized group address from the MAC header anonymization parameters (if any) of the new EDP epoch.

Revise to:

~~The dot11EDPEpochStartTimeMargin before and~~ During the margin period and the transition period (see 10.71.2.1 (General) and 10.71.2.2 (EDP group operations)) from an old EDP epoch to a new EDP epoch of the BPE non-AP MLD, the affiliated STA of the BPE non-AP MLD and the affiliated AP of the BPE AP MLD (on a setup link of the BPE non-AP MLD) shall perform address filtering using:

CID 466

Revised

 **Table 9-373 Extended RSN Capabilities field**

|  |  |  |
| --- | --- | --- |
| **Bit** | **Information** | **Notes** |
| … |  |  |
| 23 | EDP Robust Individually Addressed Management Frame Support | An EDP STA sets the EDP Robust Individually Addressed Management Frame Support field to 1 if dot11EDPRobustIndividuallyAddressedManagementFrameActivated is true. Otherwise, this field is set to 0. See 12.16.3 (EDP Robust Individually Addressed Management Frames and Robust Individually Addressed Beamforming/CSI/CQI Frames(#647)).(#40) |
| 24 | EDP Robust Individually Addressed Beamforming/CSI/CQI Frame TB(#209) Tx Support | An EDP STA sets the EDP Robust Individually Addressed Beamforming/CSI/CQI Frame TB(#209) Tx Support field to 1 if dot11EDPRobustIndividuallyAddressedBeamformingCSICQIFrameTBTxActivated(#209) is true. Otherwise, this field is set to 0. See 12.16.3 (EDP Robust Individually Addressed Management Frames and Robust Individually Addressed Beamforming/CSI/CQI Frames(#647)).(#40) |
| 25 | EDP Robust Individually Addressed Beamforming/CSI/CQI Frame Rx Support | An EDP STA sets the EDP Robust Individually Addressed Beamforming/CSI/CQI Frame Rx Support field to 1 if dot11EDPRobustIndividuallyAddressedBeamformingCSICQIFrameRxActivated is true. Otherwise, this field is set to 0. See 12.16.3 (EDP Robust Individually Addressed Management Frames and Robust Individually Addressed Beamforming/CSI/CQI Frames(#647)).(#40) |
| 26 | EDP Capabilities And Operation Parameters Request/Response Support | An EDP STA sets the EDP Capabilities And Operation Parameters Request/Response field to 1 if dot11EDPCapabilitiesAndOperationParametersRequestResponseActivated is true. Otherwise, this field is set to 0. See 12.16.4 (Capabilities and operation parameters request and response procedure(#159)).(#40) |
| 27 | (Re)Association Frame Encryption Support | An EDP STA sets the (Re)Association Frame Encryption Support field to 1 if dot11EDPReAssociation FrameEncryptionSupportActivated is true. Otherwise, this field is set to 0. See 12.16.6 ((Re)Association Request/Response Frame Encryption).(#40) |
| 28 | IEEE 802.1X Authentication Utilizing Authentication Frame Support | An EDP STA sets the IEEE 802.1X Authentication Utilizing Authentication Frame Support field to 1 if dot11EDPIEEE8021XAuthenticationUtilizingAuthenticationFrameActivated is true. Otherwise, this field is set to 0.(#40) |
| 29 | PMKSA Caching Privacy Support | An EDP STA sets the PMKSA Caching Privacy Support field to 1 if dot11EDPPMKSACachingPrivacySupportActivated is true. Otherwise, this field is set to 0. See 12.16.7 (PMKSA caching privacy).(#40) |
| 30 | Group EDP Epoch Supported | An EDP STA ~~non-AP MLD~~ sets the Group EDP Epoch Supported field to 1 when dot11EDPGroupEpochActivated is true and sets it to 0 otherwise. |
| 31 | DS MAC Address Support | The DS MAC Address Support field is set to 1 when dot11DSMACAddressActivated is true and is set to 0 otherwise. |
| 32 | EDP Robust Individually Addressed Beamforming/CSI/CQI Frame Non-TB(#209) Tx Support | An EDP STA sets the EDP Robust Individually Addressed Beamforming/CSI/CQI Frame Non-TB Tx Support field to 1 if dot11EDPRobustIndividuallyAddressedBeamformingCSICQIFrameNonTBTxActivated is true. Otherwise, this field is set to 0. See 12.16.3 (EDP Robust Individually Addressed Management Frames and Robust Individually Addressed Beamforming/CSI/CQI Frames(#647)).(#209) |

CID 738

Revised

dot11EDPGroupEpochActivated OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

 It is written by an external management entity.

 This attribute, when true, indicates that the station capability of group epochs is enabled. False indicates that the capability is present but is disabled. This attribute is not present if the capability is not present. "

 DEFVAL { false }

 ::= { dot11EDPStationConfigEntry 2 }

CID 739

Accepted

dot11EDPEpochStartTimeMargin OBJECT-TYPE

 SYNTAX Unsigned32 (1..100)

 UNITS "0.1 milliseconds"

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

 It is written by an external management entity or the SME.

 Changes take effect as soon as practical in the implementation.

 This attribute indicates the duration, before an epoch boundary, during which a STA receiving individually addressed frames accepts ~~does not filter out~~ frames that use the current nor the next epoch parameters."

 DEFVAL { 100 }

 ::= { dot11EDPStationConfigEntry 3 }

dot11EDPEpochTransitionTime OBJECT-TYPE

 SYNTAX Unsigned32 (1..1000)

 UNITS "TUs"

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

 It is written by an external management entity or the SME.

 Changes take effect as soon as practical in the implementation.

 This attribute indicates the duration, after an epoch boundary, during which a STA receiving individually addressed frames accepts ~~does not filter out~~ frames that use the previous nor the current epoch parameters."

 DEFVAL { 300 }

 ::= { dot11EDPStationConfigEntry 4 }

CID 741

Revised

~~dot11EDPGroupEpochCurrentGroup OBJECT-TYPE~~

 ~~SYNTAX Unsigned32 (0..255)~~

 ~~MAX-ACCESS read-write~~

 ~~STATUS current~~

 ~~DESCRIPTION~~

 ~~"This is a control variable.~~

 ~~It is written by an external management entity.~~

 ~~This attribute indicates the current epoch EDP(#1012) group to which the non-AP MLD is assigned. A value of zero (0) indicates the non-AP MLD is assigned to the default EDP(#1012) group. A null value indicates that the non-AP MLD is not currently assigned to an EDP(#1012) group."~~

 ~~DEFVAL { NULL }~~

 ~~::= { dot11EDPStationConfigEntry 5 }~~

*TGbi editor: Modify clause 10.71.6.1 as follows (track change on):*

**10.71.6.1 Address filtering**

Address filtering shall be applied per 10.2.8 (MAC data service) with the addressing clarifications in 10.71.5.4 (Addressing).

If CPE is enabled for the non-AP MLD and BPE is not enabled for the BSS, then for each setup link of the non-AP MLD:

During the dot11EDPEpochStartTimeMargin period and the transition period of the EDP epoch of the non-AP MLD (see 10.71.2.1 (General) and 10.71.2.2 (EDP group operations)), the affiliated STA of the non-AP MLD and the affiliated AP of the AP MLD of the setup link shall perform address filtering using:

the EDP\_STA\_address of the affiliated STA from the MAC header anonymization parameters (defined in 10.71.5.1 (MAC header anonymization parameter set selection)) of the old EDP epoch (if any), and the (fixed) address of the affiliated AP,

the EDP\_STA\_address of the affiliated STA from the MAC header anonymization parameters (if any) of the new EDP epoch, and the (fixed) address of the affiliated AP, and

for each group to which the affiliated STA is assigned, the (fixed) group address and the (fixed) address of the affiliated AP.

After this transition period and until the dot11EDPEpochStartTimeMargin period of the next EDP epoch of the non-AP MLD, the affiliated STA of the non-AP MLD and the affiliated AP of the AP MLD of the setup link shall perform address filtering using:

the EDP\_STA\_address of the affiliated STA from the MAC header anonymization parameters (if any) of the new EDP epoch, and the (fixed) address of the affiliated AP, and

for each group to which the affiliated STA is assigned, the (fixed) group address and the (fixed) address of the affiliated AP.

 (#590) During the margin period and (#590) the transition period (see 10.71.2.1 (General) and 10.71.2.2 (EDP group operations)) from an old EDP epoch to a new EDP epoch of the BPE non-AP MLD, the affiliated STA of the BPE non-AP MLD and the affiliated AP of the BPE AP MLD (on a setup link of the BPE non-AP MLD) shall perform address filtering using:

the EDP\_STA\_MAC and anonymized AP address from the MAC header anonymization parameters (if any) of the old EDP epoch,

the anonymized AP address and anonymized group address from the MAC header anonymization parameters (if any) of the old EDP epoch,

the EDP\_STA\_MAC and anonymized AP address from the MAC header anonymization parameters (if any) of the new EDP epoch, and

and the anonymized AP address and anonymized group address from the MAC header anonymization parameters (if any) of the new EDP epoch.

After this transition period, until the dot11EDPEpochStartTimeMargin before the start of the transition period of the next EDP epoch of the BPE group, the affiliated STA of the BPE non-AP MLD and the affiliated AP of the BPE AP MLD (on a setup link of the BPE non-AP MLD) shall perform address filtering using:

the EDP\_STA\_MAC and AP anonymized address from the MAC header anonymization parameters of the new EDP epoch, and

and the anonymized AP address and anonymized group address from the MAC header anonymization parameters (if any) of the new EDP epoch.

*TGbi editor: Modify Table 3-373 as follows (track change on):*

**Table 9-373 Extended RSN Capabilities field**

|  |  |  |
| --- | --- | --- |
| **Bit** | **Information** | **Notes** |
| … |  |  |
| 23 | EDP Robust Individually Addressed Management Frame Support | An EDP STA sets the EDP Robust Individually Addressed Management Frame Support field to 1 if dot11EDPRobustIndividuallyAddressedManagementFrameActivated is true. Otherwise, this field is set to 0. See 12.16.3 (EDP Robust Individually Addressed Management Frames and Robust Individually Addressed Beamforming/CSI/CQI Frames(#647)).(#40) |
| 24 | EDP Robust Individually Addressed Beamforming/CSI/CQI Frame TB(#209) Tx Support | An EDP STA sets the EDP Robust Individually Addressed Beamforming/CSI/CQI Frame TB(#209) Tx Support field to 1 if dot11EDPRobustIndividuallyAddressedBeamformingCSICQIFrameTBTxActivated(#209) is true. Otherwise, this field is set to 0. See 12.16.3 (EDP Robust Individually Addressed Management Frames and Robust Individually Addressed Beamforming/CSI/CQI Frames(#647)).(#40) |
| 25 | EDP Robust Individually Addressed Beamforming/CSI/CQI Frame Rx Support | An EDP STA sets the EDP Robust Individually Addressed Beamforming/CSI/CQI Frame Rx Support field to 1 if dot11EDPRobustIndividuallyAddressedBeamformingCSICQIFrameRxActivated is true. Otherwise, this field is set to 0. See 12.16.3 (EDP Robust Individually Addressed Management Frames and Robust Individually Addressed Beamforming/CSI/CQI Frames(#647)).(#40) |
| 26 | EDP Capabilities And Operation Parameters Request/Response Support | An EDP STA sets the EDP Capabilities And Operation Parameters Request/Response field to 1 if dot11EDPCapabilitiesAndOperationParametersRequestResponseActivated is true. Otherwise, this field is set to 0. See 12.16.4 (Capabilities and operation parameters request and response procedure(#159)).(#40) |
| 27 | (Re)Association Frame Encryption Support | An EDP STA sets the (Re)Association Frame Encryption Support field to 1 if dot11EDPReAssociation FrameEncryptionSupportActivated is true. Otherwise, this field is set to 0. See 12.16.6 ((Re)Association Request/Response Frame Encryption).(#40) |
| 28 | IEEE 802.1X Authentication Utilizing Authentication Frame Support | An EDP STA sets the IEEE 802.1X Authentication Utilizing Authentication Frame Support field to 1 if dot11EDPIEEE8021XAuthenticationUtilizingAuthenticationFrameActivated is true. Otherwise, this field is set to 0.(#40) |
| 29 | PMKSA Caching Privacy Support | An EDP STA sets the PMKSA Caching Privacy Support field to 1 if dot11EDPPMKSACachingPrivacySupportActivated is true. Otherwise, this field is set to 0. See 12.16.7 (PMKSA caching privacy).(#40) |
| 30 | Group EDP Epoch Supported | An EDP STA (#466)sets the Group EDP Epoch Supported field to 1 when dot11EDPGroupEpochActivated is true and sets it to 0 otherwise. |
| 31 | DS MAC Address Support | The DS MAC Address Support field is set to 1 when dot11DSMACAddressActivated is true and is set to 0 otherwise. |
| 32 | EDP Robust Individually Addressed Beamforming/CSI/CQI Frame Non-TB(#209) Tx Support | An EDP STA sets the EDP Robust Individually Addressed Beamforming/CSI/CQI Frame Non-TB Tx Support field to 1 if dot11EDPRobustIndividuallyAddressedBeamformingCSICQIFrameNonTBTxActivated is true. Otherwise, this field is set to 0. See 12.16.3 (EDP Robust Individually Addressed Management Frames and Robust Individually Addressed Beamforming/CSI/CQI Frames(#647)).(#209) |

*TGbi editor: Modify Annex C-3 as follows (track change on):*

dot11EDPGroupEpochActivated OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

 It is written by an external management entity.

 This attribute, when true, indicates that the station capability of group epochs is enabled. False indicates that the capability is present but is disabled. This attribute is not present if the capability is not present. (#738)"

 DEFVAL { false }

 ::= { dot11EDPStationConfigEntry 2 }

dot11EDPEpochStartTimeMargin OBJECT-TYPE

 SYNTAX Unsigned32 (1..100)

 UNITS "0.1 milliseconds"

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

 It is written by an external management entity or the SME.

 Changes take effect as soon as practical in the implementation.

 This attribute indicates the duration, before an epoch boundary, during which a STA receiving individually addressed frames accepts (#739)frames that use the current nor the next epoch parameters."

 DEFVAL { 100 }

 ::= { dot11EDPStationConfigEntry 3 }

dot11EDPEpochTransitionTime OBJECT-TYPE

 SYNTAX Unsigned32 (1..1000)

 UNITS "TUs"

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

 It is written by an external management entity or the SME.

 Changes take effect as soon as practical in the implementation.

 This attribute indicates the duration, after an epoch boundary, during which a STA receiving individually addressed frames accepts (#739)frames that use the previous nor the current epoch parameters."

 DEFVAL { 300 }

 ::= { dot11EDPStationConfigEntry 4 }