IEEE P802.11
Wireless LANs

|  |
| --- |
| CR on HE PHY MIB attributes |
| Date: 2018-05-07 |
| Author: |
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This submission present a resolution for CIDs 13384, 13386, 13387, 13388, 13385, 13383, 13390, and 13389. The proposed changes are based on P802.11ax D2.3.

##### Revision history:

##### R0 – initial version

R1 – add resolution of 3 additional CIDs

R2 – revised resolution for a few CIDs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change | Resolution |
| 13384 | 28.4 | 515 | 8 | Doppler needs to be split in RX and TX missing | Add to table as in comment. | Revised.Agree in principle but the changes are needed in not only clause 28 but also in Annex C.TGax Editor: Please change the text as indicated in doc.: IEEE 802.11-18/0765r1. |

***Discussion:***

As per Table 9-262aa, there are Doppler RX and Doppler TX subfields, but the attributes related to Doppler in Table 28-50 and Annex C, namely dot11HEDopplerImplemented and dot11HEDopplerActivated, do not distinguish between TX and RX.

***Proposed resolution:***

***Revised***

***To TGax editor: Please replace dot11HEDopplerImplemented and dot11HEDopplerActivated from 571.52 to 571.55 in Table 28-50 of P802.11ax D2.3 with the proposed changes below.***

|  |  |  |
| --- | --- | --- |
| dot11HEDopplerTXImplemented | false/Boolean | Static |
| dot11HEDopplerTXActivated | false/Boolean | Dynamic |
| dot11HEDopplerRXImplemented | false/Boolean | Static |
| dot11HEDopplerRXActivated | false/Boolean | Dynamic |

***To TGax editor: Please replace dot11HEDopplerImplemented and dot11HEDopplerActivated in Dot11PhyHEEntry from 635.9 to 635.10 of Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

Dot11PhyHEEntry ::=

 SEQUENCE {

 dot11HECCAIndicationMode INTEGER,

 …

 dot11HEDopplerTXImplemented TruthValue,

 dot11HEDopplerTXActivated TruthValue,

 dot11HEDopplerRXImplemented TruthValue,

 dot11HEDopplerRXActivated TruthValue,

 …

 dot11HEPartialBWERSUPayloadActivated TruthValue

 }

***To TGax editor: Please replace dot11HEDopplerImplemented and dot11HEDopplerActivated from 635.28 to 635.48 of Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

dot11HEDopplerTXImplemented OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-only

 STATUS current

 DESCRIPTION

 "This is a capability variable.

 Its value is determined by device capabilities.

 This attribute, when true, indicates that the non-AP STA is capable of transmitting HE PPDUs with midamble. This capability is disabled otherwise."

 DEFVAL { false }

::= { dot11PhyHEEntry 25 }

dot11HEDopplerTXActivated OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

 It is written by an external management entity.

 Changes take effect as soon as practical in the implementation.

 This attribute, when true, indicates that the implementation of the transmission of HE PPDUs with midamble are enabled. This capability is disabled otherwise."

 DEFVAL { false }

::= { dot11PhyHEEntry 26 }

dot11HEDopplerRXImplemented OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-only

 STATUS current

 DESCRIPTION

 "This is a capability variable.

 Its value is determined by device capabilities.

 This attribute, when true, indicates that the non-AP STA is capable of receiving HE PPDUs with midamble. This capability is disabled otherwise."

 DEFVAL { false }

::= { dot11PhyHEEntry TBD }

dot11HEDopplerRXActivated OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

 It is written by an external management entity.

 Changes take effect as soon as practical in the implementation.

 This attribute, when true, indicates that the implementation of the reception of HE PPDUs with midamble are enabled. This capability is disabled otherwise."

 DEFVAL { false }

::= { dot11PhyHEEntry TBD }

***To TGax editor: Please replace dot11HEDopplerImplemented and dot11HEDopplerActivated in dot11PhyHEComplianceGroup from 647.2 to 647.3 of Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

dot11PhyHEComplianceGroup OBJECT-GROUP

 OBJECTS {

 dot11HEDualBandImplemented,

 …

 dot11HEDopplerTXImplemented,

 dot11HEDopplerTXActivated,

 dot11HEDopplerRXImplemented,

 dot11HEDopplerRXActivated,

 …

 dot11HEPartialBWERSUPayloadActivated }

 STATUS current

 DESCRIPTION

 "Attributes that configure the HE PHY."

 ::= { dot11Groups <ANA> }

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change | Resolution |
| 13386 | 28.4 | 515 | 8 | HE MUPPDU with 4x HELTF and 0.8GI missing | Add to table as in comment. | Revised.Agree in principle but the changes are needed in not only clause 28 but also in Annex C.TGax Editor: Please change the text as indicated in doc.: IEEE 802.11-18/0765r1. |

***Discussion:***

As per Table 9-262aa, there is a HE SU PPDU And HE MU PPDU With 4x HE-LTF And 0.8 µs GI subfield:

|  |  |  |
| --- | --- | --- |
| HE SU PPDU And HE MU PPDU With 4x HE-LTF And 0.8 s GI | Indicates support for the reception of an HE SU PPDU and HE MU PPDU with 4x LTF and 0.8 s guard interval duration. | Set to 0 if not supported.Set to 1 if supported.This subfield is set to 1 if the HE ER SU PPDU With 4x HE-LTF And 0.8 µs GI subfield is 1. |

However, the names of the attributes related to this subfield in Table 28-50 and Annex C, namely dot11HESUPPDUwith4xHELTFand0point8GIlmplemented and dot11HESUPPDUwith4xHELTFand0point8GIActivated, are confusing because the info about MU is missing in the names:

|  |
| --- |
| **dot11PHYHETable** |
| dot11HEDualBandImplemented | false/Boolean | Static |
| … | … | … |
| dot11HESUPPDUwith4xHELTFand0point8GIlmplemented | false/Boolean | Static |
| dot11HESUPPDUwith4xHELTFand0point8GIActivated | false/Boolean | Dynamic |

***Proposed resolution:***

***Revised***

***To TGax editor: Please replace dot11HESUPPDUwith4xHELTFand0point8GIlmplemented and dot11HESUPPDUwith4xHELTFand0point8GIActivated from 571.31 to 571.35 in Table 28-50 of P802.11ax D2.3 with the proposed changes below.***

|  |
| --- |
| **dot11PHYHETable** |
| dot11HEDualBandImplemented | false/Boolean | Static |
| … | … | … |
| dot11HESUPPDUandHEMUPPDUwith4xHELTFand0point8GIlmplemented | false/Boolean | Static |
| dot11HESUPPDUandHEMUPPDUwith4xHELTFand0point8GIActivated | false/Boolean | Dynamic |

***To TGax editor: Please replace dot11HESUPPDUwith4xHELTFand0point8GIlmplemented and dot11HESUPPDUwith4xHELTFand0point8GIActivated in Dot11PhyHEEntry from 634.61 to 634.62 in Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

Dot11PhyHEEntry ::=

 SEQUENCE {

 dot11HECCAIndicationMode INTEGER,

 …

 dot11HESUPPDUandHEMUPPDUwith4xHELTFand0point8GIlmplemented TruthValue,

 dot11HESUPPDUandHEMUPPDUwith4xHELTFand0point8GIActivated TruthValue,

 …

 dot11HEPartialBWERSUPayloadActivated TruthValue

 }

***To TGax editor: Please replace dot11HESUPPDUwith4xHELTFand0point8GIlmplemented and dot11HESUPPDUwith4xHELTFand0point8GIActivated from 637.30 to 637.50 of Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

dot11HESUPPDUandHEMUPPDUwith4xHELTFand0point8GIImplemented OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-only

 STATUS current

 DESCRIPTION

 "This is a capability variable.

 Its value is determined by device capabilities.

 This attribute, when true, indicates that the non-AP STA is capable of receiving an HE SU PPDU and HE MU PPDU with 4x LTF and 0.8 µs guard interval duration. This capability is disabled otherwise."

 DEFVAL { false }

::= { dot11PhyHEEntry 13 }

dot11HESUPPDUandHEMUPPDUwith4xHELTFand0point8GIActivated OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

 It is written by an external management entity.

 Changes take effect as soon as practical in the implementation.

 This attribute, when true, indicates that the reception of an HE SU PPDU and HE MU PPDU with 4x LTF and 0.8 µs guard interval duration is enabled. This capability is disabled otherwise."

 DEFVAL { false }

::= { dot11PhyHEEntry 14 }

***To TGax editor: Please replace dot11HESUPPDUwith4xHELTFand0point8GIlmplemented and dot11HESUPPDUwith4xHELTFand0point8GIActivated in dot11PhyHEComplianceGroup from 646.59 to 646.60 of Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

dot11PhyHEComplianceGroup OBJECT-GROUP

 OBJECTS {

 dot11HEDualBandImplemented,

 …

 dot11HESUPPDUandHEMUPPDUwith4xHELTFand0point8GIlmplemented,

 dot11HESUPPDUandHEMUPPDUwith4xHELTFand0point8GIActivated,

 …

 dot11HEPartialBWERSUPayloadActivated }

 STATUS current

 DESCRIPTION

 "Attributes that configure the HE PHY."

 ::= { dot11Groups <ANA> }

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change | Resolution |
| 13387 | 28.4 | 515 | 8 | HE ER PPDU with 4x HELTF and 0.8GI missing | Add to table as in comment. | Revised.Agree in principle but the changes are needed in not only clause 28 but also in Annex C.TGax Editor: Please change the text as indicated in doc.: IEEE 802.11-18/0765r1. |
| 13388 | 28.4 | 515 | 8 | HE ER PPDU with 1x HELTF and 0.8GI missing | Add to table as in comment. | Revised.Agree in principle but the changes are needed in not only clause 28 but also in Annex C.TGax Editor: Please change the text as indicated in doc.: IEEE 802.11-18/0765r1. |

***Discussion:***

As per Table 9-262aa, there are a HE ER SU PPDU With 4x HE-LTF And 0.8 µs GI subfield and a HE ER SU PPDU With 1x HE-LTF And 0.8 µs GI subfield:

|  |  |  |
| --- | --- | --- |
| HE ER SU PPDU With 4x HE-LTF And 0.8 s GI | Indicates support for the reception of an HE ER SU PPDU with 4x LTF and 0.8 s guard interval duration. | Set to 0 if not supported.Set to 1 if supported. |
| HE ER SU PPDU With 1x HE-LTF And 0.8 s GI | Indicates support of the reception of an HE ER SU PPDU with 1x LTF and 0.8 s guard interval duration. | Set to 0 if not supported. Set to 1 if supported. |

However, the attributes of these two subfields are missing in Table 28-50.

***Proposed resolution:***

***Revised***

***To TGax editor: Please add the following 4 attributes before the entry dot11HENDPwith4xHELTFand3point2GIImplemented at 571.35 in Table 28-50 of P802.11ax D2.3.***

|  |
| --- |
| **dot11PHYHETable** |
| dot11HEDualBandImplemented | false/Boolean | Static |
| … | … | … |
| dot11HEERSUPPDUwith4xHELTFand0point8GIImplemented | false/Boolean | Static |
| dot11HEERSUPPDUwith4xHELTFand0point8GIActivated | false/Boolean | Dynamic |
| dot11HEERSUPPDUwith1xHELTFand0point8GIImplemented | false/Boolean | Static |
| dot11HEERSUPPDUwith1xHELTFand0point8GIActivated | false/Boolean | Dynamic |
| dot11HENDPwith4xHELTFand3point2GIImplemented | false/Boolean | Static |

***To TGax editor: Please add the following 4 attributes in Dot11PhyHEEntry before dot11HENDPwith4xHELTFand3point2GIImplemented at 634.63 of Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

Dot11PhyHEEntry ::=

 SEQUENCE {

 dot11HECCAIndicationMode INTEGER,

 …

 dot11HEERSUPPDUwith4xHELTFand0point8GIImplemented TruthValue

 dot11HEERSUPPDUwith4xHELTFand0point8GIActivated TruthValue

 dot11HEERSUPPDUwith1xHELTFand0point8GIImplemented TruthValue

 dot11HEERSUPPDUwith1xHELTFand0point8GIActivated TruthValue

 dot11HENDPwith4xHELTFand3point2GIImplemented TruthValue,

 …

 dot11HEPartialBWERSUPayloadActivated TruthValue

 }

***To TGax editor: Please add the following 4 attritbutes before dot11HENDPwith4xHELTFand3point2GIImplemented at 637.40 in Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

dot11HEERSUPPDUwith4xHELTFand0point8GIImplemented OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-only

 STATUS current

 DESCRIPTION

 "This is a capability variable.

 Its value is determined by device capabilities.

 This attribute, when true, indicates that the non-AP STA is capable of receiving an HE ER SU PPDU with 4x LTF and 0.8µs guard interval duration. This capability is disabled otherwise."

 DEFVAL { false }

::= { dot11PhyHEEntry TBD }

dot11HEERSUPPDUwith4xHELTFand0point8GIActivated OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

 It is written by an external management entity.

 Changes take effect as soon as practical in the implementation.

 This attribute, when true, indicates that the reception of an HE ER SU PPDU with 4x LTF and 0.8µs guard interval duration by a non-AP STA is enabled. This capability is disabled otherwise."

 DEFVAL { false }

::= { dot11PhyHEEntry TBD }

dot11HEERSUPPDUwith1xHELTFand0point8GIImplemented OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-only

 STATUS current

 DESCRIPTION

 "This is a capability variable.

 Its value is determined by device capabilities.

 This attribute, when true, indicates that the non-AP STA is capable of receiving an HE ER SU PPDU with 1x LTF and 0.8µs guard interval duration. This capability is disabled otherwise."

 DEFVAL { false }

::= { dot11PhyHEEntry TBD }

dot11HEERSUPPDUwith1xHELTFand0point8GIActivated OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

 It is written by an external management entity.

 Changes take effect as soon as practical in the implementation.

 This attribute, when true, indicates that the reception of an HE ER SU PPDU with 1x LTF and 0.8µs guard interval duration by a non-AP STA is enabled. This capability is disabled otherwise."

 DEFVAL { false }

::= { dot11PhyHEEntry TBD }

***To TGax editor: Please add the following 4 attributes in dot11PhyHEComplianceGroup before dot11HENDPwith4xHELTFand3point2GIImplemented at 646.61 in Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

dot11PhyHEComplianceGroup OBJECT-GROUP

 OBJECTS {

 dot11HEDualBandImplemented,

 …

 dot11HEERSUPPDUwith4xHELTFand0point8GIImplemented TruthValue

 dot11HEERSUPPDUwith4xHELTFand0point8GIActivated TruthValue

 dot11HEERSUPPDUwith1xHELTFand0point8GIImplemented TruthValue

 dot11HEERSUPPDUwith1xHELTFand0point8GIActivated TruthValue

 dot11HENDPwith4xHELTFand3point2GIImplemented,

 …

 dot11HEPartialBWERSUPayloadActivated }

 STATUS current

 DESCRIPTION

 "Attributes that configure the HE PHY."

 ::= { dot11Groups <ANA> }

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change | Resolution |
| 13385 | 28.4 | 515 | 8 | SRP missing | Add to table as in comment. | Revised.Agree in principle but the changes are needed in not only clause 28 but also in Annex C.TGax Editor: Please change the text as indicated in doc.: IEEE 802.11-18/0765r1. |

***Discussion:***

As per Table 9-262aa, there is a SRP-based SR Support subfield:

|  |  |  |
| --- | --- | --- |
| SRP-based SR Support | Indicates support for SRP-based SR operation. | Set to 0 if not supported.Set to 1 if supported. |

However, the attributes of this subfield are missing in Table 28-50.

***Proposed resolution:***

***Revised***

***To TGax editor: Please add the following 2 attributes before the entry dot11HEPowerBoostFactorImplemented at 572.18 in Table 28-50 of P802.11ax D2.3.***

|  |
| --- |
| **dot11PHYHETable** |
| dot11HEDualBandImplemented | false/Boolean | Static |
| … | … | … |
| dot11SRPbasedSRSupportImplemented | false/Boolean | Static |
| dot11SRPbasedSRSupportActivated | false/Boolean | Dynamic |
| dot11HEPowerBoostFactorImplemented | false/Boolean | Static |

***To TGax editor: Please add the following 2 attributes in Dot11PhyHEEntry before dot11HEPowerBoostFactorImplemented at 635.21 of Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

Dot11PhyHEEntry ::=

 SEQUENCE {

 dot11HECCAIndicationMode INTEGER,

 …

 dot11SRPbasedSRSupportImplemented TruthValue,

 dot11SRPbasedSRSupportActivated TruthValue,

 dot11HEPowerBoostFactorImplemented TruthValue,

 …

 dot11HEPartialBWERSUPayloadActivated TruthValue

 }

***To TGax editor: Please add the following 2 attritbutes before dot11HEPowerBoostFactorImplemented at 641.24 in Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

dot11SRPbasedSRSupportImplemented OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-only

 STATUS current

 DESCRIPTION

 "This is a capability variable.

 Its value is determined by device capabilities.

 This attribute, when true, indicates that the non-AP STA is capable of supporting the SRP-based SR operation. This capability is disabled otherwise."

 DEFVAL { false }

::= { dot11PhyHEEntry TBD }

dot11SRPbasedSRSupportActivated OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

 It is written by an external management entity.

 Changes take effect as soon as practical in the implementation.

 This attribute, when true, indicates that the SRP-based SR operation is enabled by the non-AP STA. This capability is disabled otherwise."

 DEFVAL { false }

::= { dot11PhyHEEntry TBD }

***To TGax editor: Please add the following 2 attributes in dot11PhyHEComplianceGroup before dot11HEPowerBoostFactorImplemented at 647.14 in Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

dot11PhyHEComplianceGroup OBJECT-GROUP

 OBJECTS {

 dot11HEDualBandImplemented,

 …

 dot11SRPbasedSRSupportImplemented,

 dot11SRPbasedSRSupportActivated

 dot11HEPowerBoostFactorImplemented,

 …

 dot11HEPartialBWERSUPayloadActivated }

 STATUS current

 DESCRIPTION

 "Attributes that configure the HE PHY."

 ::= { dot11Groups <ANA> }

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change | Resolution |
| 13383 | 28.4 | 515 | 8 | Midamble RX MAX NSTS missing | Add to table as in comment. | Revised.Agree in principle but the changes are needed in not only clause 28 but also in Annex C.TGax Editor: Please change the text as indicated in doc.: IEEE 802.11-18/0765r1. |

***Discussion:***

As per Table 9-262aa, there is a Midamble RX MAX NSTS subfield:

|  |  |  |
| --- | --- | --- |
| Midamble Rx Max NSTS | If(#11060) the Doppler Rx subfield is 1, indicates the maximum number of space-time streams supported for reception when a midamble is present(#11062) in the Data field. | Set to 0 for 1 space-time streamSet to 1 for 2 space-time streamsSet to 2 for 3 space-time streamsSet to 3 for 4 space-time streams(#13335) |

However, the attributes of this subfield are missing in Table 28-50.

***Proposed resolution:***

***Revised***

***To TGax editor: Please add the following 2 attributes before the entry dot11HENDPwith4xHELTFand3point2GIImplemented at 572.34 in Table 28-50 of P802.11ax D2.3.***

|  |
| --- |
| **dot11PHYHETable** |
| dot11HEDualBandImplemented | false/Boolean | Static |
| … | … | … |
| dot11MidambleRxMaxNSTSImplemented | false/Boolean | Static |
| dot11MidambleRxMaxNSTSActivated | false/Boolean | Dynamic |
| dot11HENDPwith4xHELTFand3point2GIImplemented | false/Boolean | Static |

***To TGax editor: Please add the following attribute in Dot11PhyHEEntry before dot11HENDPwith4xHELTFand3point2GIImplemented at 634.63 of Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

Dot11PhyHEEntry ::=

 SEQUENCE {

 dot11HECCAIndicationMode INTEGER,

 …

 dot11MidambleRxMaxNSTS Unsigned32 (0..3),

 dot11HENDPwith4xHELTFand3point2GIImplemented TruthValue,

 …

 dot11HEPartialBWERSUPayloadActivated TruthValue

 }

***To TGax editor: Please add the following attritbute before dot11HENDPwith4xHELTFand3point2GIImplemented at 637.51 in Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

dot11MidambleRxMaxNSTS OBJECT-TYPE

 SYNTAX Unsigned32 (0..3)

 MAX-ACCESS read-only

 STATUS current

 DESCRIPTION

 "This is a capability variable.

 Its value is determined by device capabilities.

 This attribute specifies the maximum number of space-time streams supported for reception when a midamble is present in the Data field, equal to 0 for 1 space-time stream, equal to 1 for 2 space-time streams, equal to 2 for 3 space-time streams, and equal to 3 for 4 space-time streams."

 DEFVAL { false }

::= { dot11PhyHEEntry TBD }

***To TGax editor: Please add the following attribute in dot11PhyHEComplianceGroup before dot11HENDPwith4xHELTFand3point2GIImplemented at 646.61 in Annex C.3 of P802.11ax D2.3 with the proposed changes below.***

dot11PhyHEComplianceGroup OBJECT-GROUP

 OBJECTS {

 dot11HEDualBandImplemented,

 …

 dot11MidambleRxMaxNSTS,

 dot11HENDPwith4xHELTFand3point2GIImplemented,

 …

 dot11HEPartialBWERSUPayloadActivated }

 STATUS current

 DESCRIPTION

 "Attributes that configure the HE PHY."

 ::= { dot11Groups <ANA> }

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change | Resolution |
| 13390 | 28.4 | 515 | 8 | 80MHz STA missing. | Add to table as in comment. | Revised.Agree in principle but the changes are needed in not only clause 28 but also in Annex C.TGax Editor: Please change the text as indicated in doc.: IEEE 802.11-18/0765r1. |

***Proposed resolution:***

***Revised***

***To TGax editor: Please add the following 2 attributes before the entry dot11VHTShortGIOptionIn80Implemented at 569.48 in Table 28-50 of P802.11ax D2.3.***

|  |
| --- |
| **dot11PHYVHTTable** |
| dot11CurrentChannelWidth | Implementation dependent | Dynamic |
| … | … | … |
| dot11EightyMHzOperationImplemented | false/Boolean | Static |
| dot11EightyMHzOperationActivated | false/Boolean | Dynamic |
| dot11VHTShortGIOptionIn80Implemented | false/Boolean | Static |

***To TGax editor: Please add the following before dot11PhyHETable at 634.23 in Annex C.3 of P802.11ax D2.3.***

Dot11PhyVHTEntry ::=

 SEQUENCE {

 dot11VHTChannelWidthOptionImplemented INTEGER,

 …

 dot11EightyMHzOperationImplemented TruthValue,

 dot11EightyMHzOperationActivated TruthValue,

 dot11VHTShortGIOptionIn80Implemented TruthValue,

 …

 dot11VHTMaxNTxChainsActivated Unsigned32

 }

dot11EightyMHzOperationImplemented OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-only

 STATUS current

 DESCRIPTION

 "This is a capability variable.

 Its value is determined by device capabilities.

 This attribute, when true, indicates that the 80 MHz operation is

 implemented"

 DEFVAL { false }

::= { dot11PhyVHTEntry 20 }

dot11EightyMHzOperationActivated OBJECT-TYPE

 SYNTAX TruthValue

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable.

 It is written by an external management entity.

 Changes take effect as soon as practical in the implementation.

 This attribute, when true, indicates that the 80 MHz operation is

 enabled"

 DEFVAL { false }

::= { dot11PhyVHTEntry 21 }

dot11PhyVHTComplianceGroup OBJECT-GROUP

 OBJECTS {

 dot11VHTChannelWidthOptionImplemented,

 …

 dot11EightyMHzOperationImplemented,

 dot11EightyMHzOperationActivated,

 dot11VHTShortGIOptionIn80Implemented,

 …

 dot11VHTMaxNTxChainsActivated

 }

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change | Resolution |
| 13389 | 28.4 | 515 | 8 | 20MHz STA missing. | Add to table as in comment. | Revised.Agree in principle but the changes are needed in not only clause 28 but also in Annex C.TGax Editor: Please change the text as indicated in doc.: IEEE 802.11-18/0765r1. |

***Revised***

***To TGax editor: Please add the following 2 attributes before the row dot11PHYHTTable at 568.50 in Table 28-50 of P802.11ax D2.3.***

|  |
| --- |
| **dot11PHYOFDMTable** |
| dot11TwentyMHzOperationImplemented | false/Boolean | Static |
| **dot11PHYHTTable** |