IEEE P802.11
Wireless LANs

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| Proposed resolution for miscellaneous comments on initial SA ballot on D4.0: Part 4 |
| Date: 2024-01-17 |
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#####

##### This submission present proposed resolutions for the following 6 ED2 CIDs:

Clause 13: 6296

Clause 12: 6115, 6365, 6395

Clause 20: 6409

Annex C: 6160

##### The proposed changes are based on REVme/D4.2.

##### Revision history:

##### R0 – Initial version that proposes resolution to CIDs 6296, 6115, 6365, and 6409.

##### R1 – Revised version that adds the proposed resolution to CID 6160.

##### R2 – Further revised the proposed resolutions of these CIDs based on the feedback received on Monday PM2.

R3 – Updated proposed resolution to CID 6409.

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| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 6296 | 13 |  |  | Figure 13-2 has spurious "802.11" and "Request"/"Response" -- all frames are 802.11 frames and we don't have Authentication Request frames, just Authentication frames | Delete the quoted terms from the figure |

***Discussion:***

The commenter refers to the instance of “802.11 Authentication Request (Open)” and “802.11 Authentication Response (Open)” in the figure as shown below. Agree with the commenter that there is only an Authorization frame and therefore, “802.11 Authentication Request (Open)” and “802.11 Authentication Response (Open)” can be replaced with “Authentication (Open)” and “Authentication (Open)”, respectively.



Straw poll (Monday PM2): Do you agree with resolving CID 6296 with the following resolution?

Revised.

Replace “802.11 Authentication Request (Open)” with “Authentication-Request (Open)” at 3122.5

Replace “802.11 Authentication Response (Open)” with “Authentication-Response (Open)” at 3122.7

Result: 8 Yes, 2 No, 5 Abstain, 7 No Answer

***Proposed resolution for CID 6296:***

Revised.

Replace “802.11 Authentication Request (Open)” with “Authentication-Request (Open)” at 3122.5

Replace “802.11 Authentication Response (Open)” with “Authentication-Response (Open)” at 3122.7

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| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 6115 | 12.7.2 | 2910 | 37 | The phrase "also shall" should be "shall also". Note there are 98 instances of "shall also" in the draft. |  |

***Discussion:***

As referred to 3042.62, “also shall” can be replaced with “shall also” for the sake of consistency.



***Proposed resolution for CID 6115:***

Revised.

Change “; the Authenticator also shall maintain” to “. The Authenticator shall maintain” at 3042.62.

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| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 6365 |  |  |  | "RSC = For PTK generation, starting TSC or PN that the Authenticator's STA uses in MPDUs protected by GTK" and "a WUR PN that is generated and partially included in the WUR frame" -- per CID 1422 the "PN"s should be "packet number"s | As it says in the comment |

***Discussion:***

As referred to 3054.44, “PN” can be replaced with “packet number”.



As referred to 3056.56, “PN” can be replaced with “packet number”.



As referred to 884.31, “WUR PN Update” can be replaced with “WUR Packet Number Update”.



As referred to 4762.24, “WUR PN” can be replaced with “WUR packet number”.



As referred to 4765.58, “WUR PN Update element” can be replaced with “WUR Packet Number element”. At 4765.59 and 4765.60, “PN value” can be replaced with “packet number value”.



As referred to 4765.64, “WUR PN Update element” can be replaced with “WUR Packet Number element”. At 4766.2, “stored PN” can be replaced with “stored packet number value”.





As referred to 4766.7, “WUR PN Update element” can be replaced with “WUR Packet Number element”. At 4766.9, “PN” can be replaced with “packet number”.



***Proposed resolution for CID 6365:***

Revised.

At 3054.44 and 3056.56, change “PN” to “packet number”.

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| CID | Clause | Page | Line | Comment | Proposed Change |
| 6395 | 12.6.1 |  |  | "The TPKSA consists of the following: -- MAC addresses of the TDLS initiator STA and the TDLS responder STA -- Pairwise cipher suite selector -- TPK Lifetime -- TPK" but TPK stands for TDLS PeerKey in Clause 3 rather than TDLS peer key, so it's not a key, though it's clearly intended to be one here and in some other locations | Define a new term, e.g. TDLS PeerKey transient key = TPTK, and use this when "TPK" refers to a key rather than the "TDLS PeerKey" feature. Change existing uses of "TPTK" to "newPTK" |

***Discussion:***

As referred to 3001.24, replace “TPK” with “TPK transient key”.



At 3067.45, replace “TPK confidentiality” with “TPK transient key confidentiality”.



At 3067.58, replace “leak the TPK” with “leak the TPK transient key”.

At 3067.60, replace “set up a TPK” with “set up a TPK transient key”.



At 3068.35, replace “The TPK” with “The TPK transient key”.



At 3068.59, replace “A TPK is a transient key. Each TPK” with “A TPK transient key is a transient key, which”.



At 3069.7, replace “temporal” with “transient”.

***Proposed resolution for CID 6395:***

Revised.

Incorporate the changes as shown in the document 11-23/2218r2(https://mentor.ieee.org/802.11/dcn/23/11-23-2218-02-000m-proposed-resolution-for-miscellaneous-comments-on-initial-sa-ballot-on-d4-0-part-4.docx) under CID 6395.

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| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 6409 | 20 |  |  | "header field[s]" in Clause 20 and children clauses should be "Header field" | I can provide locations |

***Discussion:***

At 3504.37, replace “The header fields” with “The Header field”.



At 3533.57, replace “header field” with “Header field”.



At 3534.58, replace “header field” with “Header field”.



At 3535.23, replace “header fields” with “Header field”. With the change to the title of subclause 20.9.2.2.3, all the cross reference of “20.9.2.2.3 (BRP PPDU header fields)” will be changed to “20.9.2.2.3 (BRP PPDU Header field)”.



At 3895.26 and 3895.28, replace “header fields” with “Header field”. With the change to the title of subclause 24.9.2.2.3, all the cross reference of “20.9.2.2.3 (BRP PPDU header fields)” will be changed to “20.9.2.2.3 (BRP PPDU Header field)”.



At 4626.58, replace “L-Header” with “L-Header field”.



At 4632.32, replace “header fields” with “Header field”. With the change to the title of subclause 28.9.2.2.3, all the cross reference of “28.9.2.2.3 (EDMG BRP PPDU header fields)” will be changed to “28.9.2.2.3 (EDMG BRP PPDU Header field)”.



***Proposed resolution for CID 6409:***

Revised.

Incorporate the changes as shown in the document 11-23/2218r3 (https://mentor.ieee.org/802.11/dcn/23/11-23-2218-03-000m-proposed-resolution-for-miscellaneous-comments-on-initial-sa-ballot-on-d4-0-part-4.docx) under CID 6409.

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| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 6160 | C.3 | 5457 | 46 | dot11TransmittedFrameCount is in dot11CountersGroup3/4/5/6 twice | In each of these groups change the first dot11TransmittedFrameCount to dot11GroupTransmittedFrameCount, as in dot11CountersGroup/2 |

***Discussion:***

dot11CountersGroup3, dot11CountersGroup4, and dot11CountersGroup5 were deprecated.

***Proposed resolution for CID 6160:***

Revised.

Incorporate the changes as shown in the document 11-23/2218r2 (https://mentor.ieee.org/802.11/dcn/23/11-23-2218-02-000m-proposed-resolution-for-miscellaneous-comments-on-initial-sa-ballot-on-d4-0-part-4.docx) under CID 6160.

For dot11CountersGroup6, at 5771.28, change “STATUS current” to “STATUS deprecated”.

For dot11CountersGroup6, at 5771.30, change “Attributes from the dot11CountersGroup that are not described in the dot11MACStatistics group. These objects are mandatory.” to “Superseded by dot11CountersGroup7. Attributes from the dot11CountersGroup that are not described in the dot11MACStatistics group. These objects are mandatory.”

At 5771.33, add the following:

dot11CountersGroup7 OBJECT-GROUP

OBJECTS {

dot11TransmittedFragmentCount,

dot11GroupTransmittedFrameCount,

dot11FailedCount,

dot11ReceivedFragmentCount,

dot11GroupReceivedFrameCount,

dot11FCSErrorCount,

dot11TransmittedFrameCount,

dot11QosDiscardedFragmentCount,

dot11AssociatedStationCount,

dot11QosCFPollsReceivedCount,

dot11QosCFPollsUnusedCount,

dot11QosCFPollsUnusableCount,

dot11QosCFPollsLostCount,

dot11TransmittedAMSDUCount,

dot11FailedAMSDUCount,

dot11RetryAMSDUCount,

dot11MultipleRetryAMSDUCount,

dot11TransmittedOctetsInAMSDUCount,

dot11AMSDUAckFailureCount,

dot11ReceivedAMSDUCount,

dot11ReceivedOctetsInAMSDUCount,

dot11TransmittedAMPDUCount,

dot11TransmittedMPDUsInAMPDUCount,

dot11TransmittedOctetsInAMPDUCount,

dot11AMPDUReceivedCount,

dot11MPDUInReceivedAMPDUCount,

dot11ReceivedOctetsInAMPDUCount,

dot11AMPDUDelimiterCRCErrorCount,

dot11ImplicitBARFailureCount,

dot11ExplicitBARFailureCount,

dot11ChannelWidthSwitchCount,

dot11TwentyMHzFrameTransmittedCount,

dot11FortyMHzFrameTransmittedCount,

dot11TwentyMHzFrameReceivedCount,

dot11FortyMHzFrameReceivedCount,

dot11GrantedRDGUsedCount,

dot11GrantedRDGUnusedCount,

dot11TransmittedFramesInGrantedRDGCount,

dot11TransmittedOctetsInGrantedRDGCount,

dot11BeamformingFrameCount,

dot11DualCTSSuccessCount,

dot11DualCTSFailureCount,

dot11STBCCTSSuccessCount,

dot11STBCCTSFailureCount,

dot11nonSTBCCTSSuccessCount,

dot11nonSTBCCTSFailureCount,

dot11TransmittedMSDUOctetsCount,

dot11ReceivedMSDUOctetsCount

}

 STATUS current

 DESCRIPTION

 “Attributes from the dot11CountersGroup that are not described in the

 dot11MACStatistics group. These objects are mandatory.”

 ::= { dot11Groups <ANA> }

For dot11Compliance, at 5773.43, change “dot11CountersGroup6” to “dot11CountersGroup7”.