IEEE P802.11  
Wireless LANs

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| 802.11  IEEE P802.11ai D4.0 Mandatory Draft Review (MDR) Report | | | | |
| Date: 2015-05-14 | | | | |
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**Abstract**

This document contains the report of the 802.11ai Mandatory Draft Review.

Resolutions to most comments and corresponding changes are provided in r1. The open comments will be discussed in TGai conf call and Editor conf call.

R3 incorporates resolution from TGai conf call and Editor conf call. Only one open comment left for IEEE802.11 May meeting for further discussion.

R4:Added response for the one open comment (highlighted in yellow in R3). The comment is addressed by having adopted a technical submission in the May 2015 face-to-face meeting

# 3999Introduction

## Purpose of this document

This document is the report from the group of volunteers that participated in the P802.11ah Draft 4 mandatory draft review.

This document contains recommendations for changes to P802.11ah to bring it into improved compliance to IEEE-SA and WG11 style.

Those recommended changes need to be reviewed by TGah and approved, or ownership of the issues taken by TGah.

## Process / references

The MDR process is described in:

* 11-11/615r5 – Mandatory Draft Review process
  + https://mentor.ieee.org/802.11/dcn/11/11-11-0615-05-0000-wg802-11-mec-process.doc

And references:

* 11-09/1034r10 – 802.11 Editorial Style Guide
  + https://mentor.ieee.org/802.11/dcn/09/11-09-1034-10-0000-802-11-editorial-style-guide.doc

A setup meeting was held, and review topics identified and assigned to volunteers. The volunteers provided their review comments, which have been compiled into this document, with some editorial changes.

## Acknowledgements

The 802.11 technical editors (Adrian Stephens and Peter Ecclesine) gratefully acknowledge the work and contribution of:

* Lee Armstrong
* Ping Fang
* Yongho Seok
* Edward Au

Review assignments:

1. Style guide clause 2 to 2.6 inclusive - Peter
2. Style guide clause 2.6 to 2.15 – Ping Fang and Edward Au
3. Style guide clause 3 - Lee
4. MIB style and compiles with no extra warnings - Yongho
5. ANA check - Adrian

## Actions arising

# Findings

***Address the following issues as indicated***

**2.1.1 Frame Figure Formats**

P49L55 Figure 8-575b Box is touching text, move box

Editor[A]

P51L41 Figure 8-575f Box is touching text, move box

Editor[A]

P59L45 Figure 8-575p Subnet ID Token length is not ‘s’ - the Subnet ID Token is an opaque indication of the IP subnet domain from which IP addresses are assigned.

Editor[M]the feedback from the group is :change “s” to “1” .

P73L6 and P73L22 Our baseline uses Arial font for figures, not Times New Roman. Change text in Figure 8-605a and 8-605b to Arial.

Editor[A] *note to editor, the page number is page72, not 73*

P75L40 Change text in Figure 8-663a to Arial.

Editor[A]

P76L6 Change text in Figure 8-663b to Arial.

Editor[A]

**2.1.1.1 Optional fields**

Our baseline uses “variable” to indicate a field has more than one possible length. Change the length field in all Figures to use “variable”. [11 occurrences]

Editor[A]: Change “Variable” to “variable”

**2.1.2 Naming Frames**

P109L20, P109L21 and P109L27 delete “request” from fast initial link setup request

Editor[A]

P107L33 delete “Action” from FILS Container Action frame

Editor[A]

**2.3 “is set to”**

8.4.2.179 P58L24, P58L32, P58L43, P58L44 occurrences of conditional field descriptions ‘when xx is set to yy ‘. Should say ‘when xx is yy’ or ‘when xx has the value yy’

Editor[M]: Page 58, Line 24,Replace “When it is set to zero (0)” with “When the Number of Public Key Identifiers subfield is 0, ”

Editor[M]: Page 58, Line 32,Replace “When it is set to zero (0)” with “When the Number of Domain Identifiers subfield is 0, ”

Editor[M]: Page 58, Line 43,Replace “When the Cache Supported bit is set to one (1)” with “When the Cache Supported subfield is 0, ”

Editor[M]: Page 58, Line 44,Replace “When the Cache Supported bit is set to zero (0)” with “When the Cache Supported subfield is 0, ”

P59L50 should be in Times New Roman, not Arial font.

Editor[A]

P90L36 and P90L57 replace “equal to true” with “true” equal to true,

Editor[A]

**2.8 “frame” vs “packet” vs “PPDU” vs “MPDU”**

**Edior[J]:**

*The items listed in this clause are discussed in the group, the conclusion is reject the comments. And the explaination is as below：*

1. *HLP packets are not MAC frames, they are supposed to be higher layer protocol packets without MAC header;*
2. *DHCPv4/v6 are not MAC frames, they are supposed to be higher layer protocol packets without MAC header;*
3. *packet is used in IETF, so packet should be kept in the contexts;*

P60L43 replace “packets” with “frames” higher layer protocol (HLP) packets

P60L43 replace “packets” with “frames” higher layer protocol (HLP) packets

P60L47 delete “packet” as it is not used in 10.45.3.1 higher layer protocol packet encapsulation

P60L53 Figure 8-575q replace “packet” with “frame” HLP packet

P61L8 replace “packet” with “frame” The HLP Packet field contains the HLP packet.

P105L24 replace “packets” with “frames” higher layer protocol (HLP) packets

P105L27 replace “packets” with “frames” multiple HLP packets

P105L28 and P106L2 replace “packet” with “frame” each HLP packet.

P105L31 and P105L37 replace “packet” with “frame” The HLP packet

P105L45,45,47,48,48 replace “packet(s)” with “frame(s)” the HLP packet(s)

P105L52 and P105L61 replace “packet” with “frame” the HLP packet

P105L61, P106L4 and P106L5 replace “packets” with “frames” HLP packets

P106L6 replace “packet” with “frame” The packet encapsulation

P106L12 replace “packet” with “frame” received HLP packet

P106L13 replace “packet” with “frame” The HLP packet

P106L17 replace “packets” with “frames” any HLP packets

P106L27,28,30 replace “packet(s)” with “frame(s)” HLP packet(s)

P106L30 replace “packet” with “frame” each HLP packet

P106L30 replace “packet” with “frame” The packet decapsulation

P106L35 replace “packet” with “frame” the HLP packet

P106L43 replace “packets” with “frames” DHCPv4/v6 packets

P106L44 replace “packets” with “frames” RS/RA packets.

P121L40,41,42,43 replace “packet” with “frame” EAP-RP packet

P121L43 replace “packet” with “frame” the packet

P122 clause 11.11.2.2.2 examine use of “frame” in each of the IETF contexts

P127L48 replace “packet” with “frame” EAP-RP packet

P138L51 replace “packet” with “frame” HLP Packet Encapsulation

P142L49 replace “packets” with “frames” HLP packets

**2.9 normative verbs in informative text**

P77L57 remove “only” NOTE—FILS is only supported in non-DMG

Editor[M], the whole sentence has been removed.

P91L62 replace “shall not” with “is not” AP-CSN shall not be increased

Editor[A]

P114L61 insert “possibly” before “compromising” Neither the AP nor the STA can use the PMK for any purpose but the one specified herein without compromising the key.

Editor[A]

P91L50 rewrite the note to not use “should” that an element should be excluded from the

Editor[M] remove “should”

P91L56 rewrite the note to not use “should” Any change in a Fragment element should be considered

Editor[M] replace “should be” with “is”

**2.9 “shall”**

P102L24 Sentence should say “A FILS STA is a QoS STA and shall set dot11QosCapabilityImplemented to true.”

Editor[M] Replace with “A FILS STA is a QoS STA and shall set dot11QosOptionImplemented to true.” *note to editor, the line is supposed to be 54, not 24,*

**2.9 “should”**

**Editor’s note:Per discussion with Peter, if the whole feature is optional, “should” usage in the description should be minimized.**P89L38 replace “should” with “shall” as it is a hard requirement the responding FILS STA should discard

Editor[A]

P91L3 replace “should maintain” with “maintains” A FILS AP should maintain an AP-CSN List

Editor[A] The page number is supposed to be 92

P92L30 replace “should compare” with “compares” the AP should compare

Editor[A]P92L36 and P92L43 replace “should send “ with “sends” the AP should send

Editor[A]

P99L21 replace “should set” with “sets” non-AP STA should set

Editor[A]

P100L52 replace “should check” with “checks” STA should check

Editor[A]

P101L47 replace “should contain” with “contains” field should contain

Editor[A]

P101L50 replace “should interpret” with “interprets” STA should interpret it as

Editor[A]

P102L7 replace “should also include” with “also includes” response should also include the

Editor[A]

P102L14 replace “should be taken” with “taken” will be discarded and no action should be taken

Editor[A]

P104L14 replace “should compare” with “compares” frame should compare

Editor[A]

P106L2 replace “should transmit” with “transmits” the AP should transmit each

Editor[A]

P107L12 replace “should perform” with “performs” AP should perform DAD

Editor[A]

P118L50 replace “should be” with “is” it should be initialized

Editor[A]

P125L9 replace “should perform” with “performs the” STA should perform retransmission

Editor[J] This behaviour is recomanded, not mandatory.

P125L10 replace “should perform” with “performs” and should perform full

Editor[J] This behaviour is recomanded, not mandatory.

**2.9 “can”**

P79L34 replace “can be” with “is” minimum rate can be derived

Editor[A]

P89L19 replace “can be” with “is” can be provided over the MAC SAP

Editor[A]

**2.9 “will”**

P68L46 replace “will access” with “accesses” the STA will access the AP based on its highest priority queue

Editor[A]

P91L61 replace “will” with “does” the AP-CSN will not provide

Editor[A]

P102L14 replace “will be” with “is” the value will be discarded and

Editor[A]

P106L24 and P106L49 replace “will try to” with “tries to” will try to assign

Editor[A] the page number is supposed to be 107, not 106

P109L56 replace “will attempt to” with “attempts to” the STA will attempt to associate

Editor[A]

P120L37 replace “will be” with “is” secret key which will be used

Editor[A]

**2.9 “only”**

P13L23 remove “only” is only valid if

Editor[A]

P92L38 and P92L43 remove “only” including only mandatory

Editor[A]

P105L2 remove “only” provides only a subset

Editor[A]

**2.9 “ensures”**

P124L45 replace “ensures” with “verifies” and insert “are” before “consistent” The STA ensures that the AP transmitted PFS parameters consistent with

Editor[A]

**2.9.1 “which/that” (IEEE Style Manual 11.2.3)**

P3L52 replace “and for which” with “and” and for which dot11FILSActivated is true.

Editor[A]

P5L21 replace “which STAs are” with “STAs that are” which STAs are

Editor[A]

P9L15 replace “by which” with “that” manner by which trust

Editor[A]

P53L44 replace “by which the” with “whose” in which the bits

Editor[A] *replace “in which the” with “whose”*

P56L14 replace “order in which” with “order that” order in which

Editor[A]

P58L45 replace “scope in which” with “scope that” scope in which

Editor[A]

P59L10 and P60L28 replace “domain from which IP” with “domain wherein IP” domain from which IP

Editor[A]

P71L57 replace “elements for which” with “elements that” ANQP-elements for which

Editor[A]

P77L8 replace “of which the length” with “whose length” of which the length is

Editor[A]

P83L18 and P83L30 replace “into which the information” with “that the information” into which the information

Editor[A]

P87L25 replace “BSS for which MLME-SCAN.confirm” with “BSS whose MLME-SCAN.confirm” BSS for which MLME-SCAN.confirm

Editor[M] *put a comma before “for which”*

P89L38 replace “frame which has” with “frame that has” frame which has

Editor[A]

P90L7 and P90L29 replace “STA in which” with “STA that” STA in which

Editor[M] change “A STA in which dot11InterworkingServiceActivated is true” to “A STA having dot11InterworkingServiceActivated equal to true”

P92L3 replace “which consists of” with “consisting of” which consists of

Editor[A]

P92L44 replace “which need to” with “that need to” elements which need to

Editor[A]

P93L1 replace “STA (local) for which” with “STA (local) that” STA (local) for which

Editor[A]

P93L7 replace “in which the STA” with “where the STA” in which the STA

Editor[A]

P93L10 and P93L18 replace “STA for which” with “STA whose” STA for which

Editor[A]

P107L22 and P107L50 replace “within which it” with “that it” within which it

Editor[M] *change “within which it” to “, within which it”*

P108L58 replace “rate at which” with “rate that” rate at which

Editor[A]

P109L46 replace “frame which includes” with “frame including” frame which includes

Editor[A]

P114L10 replace “which may” with “that may” which may

Editor[J]

P120L18 replace “for which solving” with “where solving” for which solving

Editor[A]

P120L37 replace “key which will” with “key that will” key which will

Editor[A]

P120L61 replace “with which the” with “that the” with which the

Editor[M *change “with which the” to “, with which the”*

P121L19 replace “which uses” with “that uses” which uses

Editor[A]

P124L10 replace “which encapsulates” with “that encapsulates the” which encapsulates

Editor[A]

P125L37 replace “in which to perform” with “to perform” in which to perform

Editor[A]

P154L34 replace “with which the STA is associated” with “that the STA is associated to” with which the STA is associated.

Editor[A] *note to editor, the page number is supposed to be 134, not 154.*

**2.9.2 Missing & use of articles (indexicals)**

P88L58 missing ‘a’ includes FILS Request

Editor[A]

P89L4 missing ‘a’ include BSS

Editor[A]

P90L23 missing ‘a’ transmit Probe

Editor[A]

P90L43 missing ‘the’ any of Probe

Editor[A]

P91L1 missing ‘the’ addressed to broadcast

Editor[A]

P106L5 missing ‘a’ transmitting (Re)Association

Editor[A]

P106L25 missing ‘a’ receives (Re)Association

Editor[A]

P106L60 replace ‘an’ with ‘a’ to an STA

Editor[A]

P107L11 missing ‘the’ in (Re)Association

Editor[A]

P107L29 missing ‘a’ using FILS

Editor[A]

P107L32 missing ‘a’ use FILS

Editor[A]

P107L33 missing ‘an’ included IP

Editor[A]

P107L37,42,46 missing ‘an’ assign IP

Editor[A]

P107L53 missing ‘an’ containing IP

Editor[A]

P107L53 missing ‘the’ initiate IP

Editor[A]

P108L6 missing ‘the’ whether AP

Editor[A]

P108L31 missing ‘an’ D for AP

Editor[A]

P108L38 extraneous ‘in’ in 3GPP

Editor[M] remove “in”

P109L26 missing ‘a’ in Vendor

Editor[A]

P109L47 missing ‘a’ includes Differentiated

Editor[A]

P109L60 missing ‘a’ If MAC

Editor[A]

P110L1 missing ‘a’ If Vendor

Editor[A]

P118L54 missing ‘is’ negotiated 00-

Editor[A]

P120L20 extraneous ‘in common’ have in common

Editor[A] Remove ‘in common’

P120L35 missing ‘procedures” Response.

Editor[M] *add “frames” at the end of the line*

P120L58 missing ‘a’ using Domain

Editor[A]

P121L30 missing ‘A’ STA may

Editor[A]

P121L38 missing ‘a’ using FILS

Editor[A]

P121L39 missing ‘The’ AP

Editor[A]

P122L41 missing ‘per’ packet IETF

Editor[A]

P123L12 missing ‘procedure’ following:

Editor[A]

P125L32 missing ‘authentication’ public key.

Editor[A]

P126L18,19 missing ‘is’ number set

Editor[A]

P121L20 missing ‘is set’ field to

Editor[A] *note to editor, the page number is supposed to be 126, not 121*

P128L7 missing ‘are’ TK\_bits determined

Editor[A]

P133L59 missing ‘A’ STA

Editor[A]

P133L60 missing ‘an’ receives MDE

Editor[A]

P134L38 missing ‘the’ To establish FT

Editor[A]

**2.9.3 Missing noun in noun phrase**

P32L48, P33L21, P34L24 and P35L23 elements

Editor[A]: add noun

**Other findings**

P83L24 missing “e” Th information

Editor[A]

P83L24 term ‘J’ needs explanation or removal where - M is L size / 255 J the

Editor[M] covered by CID 7423, and already updated in D4.1.

P83L26-27 our baseline uses em-dash in dashed lists

Editor[A]

P86L17, P86L32, P87L27, P87L36, P88L27 and P88L37, insert ‘of’ after ‘more’ or more BSSDescriptionSet,

Editor[A]

P87L43 Figure 10-4a title needs strikethrough on first two words Probe Response

Editor[J] the FM automaticly delete the strikethrough when creating the crossreference. The Figure title is correct.

P90L12 missing space frame.][Each

Editor[A]

P90L15 duplicate period

Editor[A]

P90L31 replace ‘an’ with ‘a’ an CAG

Editor[A]

P90L37 missing comma frames respond

Editor[M] *delete “respond to all”*

P90L54 duplicate period

Editor[A]

P91L26-48 our baseline uses em-dash in dashed lists

Editor[A] *change them to be same as in baseline*

P96L64 missing space The STA receives oneor more

Editor[A] the page number is supposed to be 86, not 96

P99L59 missing space after ‘a’ a][non-FILS STA’s

Editor[A]

P100L14-19 our baseline uses em-dash in dashed lists

Editor[A] *change them to be same as in baseline*

P103L29 missing space after ‘A’ A][FILS AP

Editor[A]

P104L19 missing comma after ‘list’ SSID list the

Editor[A]

P104L31-41 our baseline uses em-dash in dashed lists

Editor[A] *change them to be same as in baseline*

P105L18 extra editing instruction, P104L55 pertains

Editor[A]

P106L49 extra editing instruction, P104L55 pertains

Editor[A]

P108L65 extra editing instruction, P108L51 pertains

Editor[A]

P109L34 extra editing instruction, P108L51 pertains

Editor[A]

P105L39 extraneous “9” 5.1.4 9

Editor[A]note to editor, the line number is supposed to be 31, not 39

P105L50 extraneous “4” element is: 4

Editor[A]

P107L20 extraneous “then”

Editor[A]

P109L15 extraneous period

Editor[A]

P109L21 extraneous “number of” fewer number of STAs

Editor[A]

P109L42 missing comma fields the

Editor[A]

P109L60 replace ‘;’ with “’” STA;s

Editor[A]

P109L65 missing space 5][LSBs

Editor[A]

P110L4 extra space “non-[ ]STA”

Editor[A]

P111L16 our baseline uses em-dash in dashed lists

Editor[A] *change them to be same as in baseline*

P111L32 missing space, extraneous ‘is bidirectional’ A][PMKSA is a bidirectional association is bidirectional.

Editor[A]

P113L27 extraneous numbers 605, 6196

Editor[A]

P114L4,55 sentence is set in too small a font.

Editor[A]

P120L3,28,48 extra editing instruction, P119L51 pertains

Editor[A]

P120L42 missing ‘and’ between RFC 5295 and RFC 6696. When a shared key is used for FILS authentication, and if the STA shares a valid rRK with the TTP, then EAP-RP as defined in IETF RFC 5295 IETF RFC 6696 shall be used.

Editor[A]

P121L13,25 extra editing instruction, P119L51 pertains

Editor[A]

P122L36 extraneous ‘:’ r**equirements:**

Editor[A]

P122L42 replace ‘additional clarification:’ with ‘clarifications’ additional clarification:

Editor[A]

P123L10 extraneous ‘:’ r**equirements:**

Editor[A]

P124L1,29 extraneous ‘:’ r**equirements:**

Editor[A]

P124L19 is the reference ‘56A’ or ‘56a’? make sure clauses 2 and 11 match NIST SP 800-56a-R2

Editor[M] *56A should be used*

P125L26 extra editing instruction, P119L51 pertains

Editor[A]

P126L25 extra editing instruction, P119L51 pertains

Editor[A]

P127L13 missing comma 16 the

Editor[A]

P127L14 missing comma 17 the

Editor[A]

P127L34 extraneous ‘And’ And when

Editor[A]

P127L59 extraneous period

Editor[A]

P128L2 missing comma 17 the

Editor[A]

P128L28 the little-endianness of 802.11 disagrees with ‘first bit is 1’

Editor[M] Editor [M] A technical submission that rewrites the section and clarifies the raised issue has been accepted by the task group.  Resulting changes will be incorporated in the draft in the next revision of the draft..

P128L38,48 extra editing instruction, P119L51 pertains

Editor[A]

P129L52 extraneous ‘e’ withe

Editor[A]

P130L34 extra editing instruction, P119L51 pertains

Editor[A]

P131L15 extraneous period STA-MAC ).

Editor[A]

P132L3 extraneous colon following:

Editor[J]

P132L40 extra editing instruction, P119L51 pertains

Editor[A]

P132L49 missing space 14][or

Editor[A]

P134L56 replace start with ‘Next the AP constructs’ Then, the AP shall construct

Editor[M] *change to‘Next, the AP constructs’*

***The following findings cover Clauses 2.9-2.75 (in reverse order), from Edward Au. There might be overlap with the findings reported above.***

**Clause 2.17: Abbreviations**

[Ed 001] Page 3, Line 17: replace “EAP re-authentication protocol (EAP-RP)” with “Extensible Authentication Protocol re-authentication protocol (EAP-RP)”.

Editor[M] replace “EAP re-authentication protocol (EAP-RP)” with “ Extensible Authentication Protocol (EAP) re-authentication protocol (EAP-RP)”

[Ed 002] Page 3, Line 56: replace “FILS association” with “fast initial link setup (FILS) association”.

Editor[A]

[Ed 003] Page 3, Line 58: replace “FILS authentication” with “fast initial link setup (FILS) authentication”.

Editor[A]

***When an abbreviation has been defined, use it. (If you don’t the publication editor will probably replace most occurrences in the text of the full term with the abbreviation).***

[Ed 004] Page 8, Lines 8-9: replace “perfect forward security (PFS)” with PFS” as the term “PFS” is already defined in clause 3.

Editor[J]: In styleman, “Within text, the acronym or abbreviation should follow the first use of the full term (the first time in the introduction, then the first time in the body of the document, and then the first time in any annexes in which the acronym appears). The abbreviation or acronym should be placed in parentheses when following the full term.”

[Ed 005] Page 32, Lines 9-10: replace “Common Advertisement Group (CAG) number” with “CAG number” as the term “CAG” is already defined in clause 3.

Editor[J]: In styleman, first use in document body.

[Ed 006] Page 36, Line 50: replace “CAG Number\_” with “CAG Number”.

Editor[A] [Ed 007] Page 49, Line 41: replace “The Common Advertisement Group (CAG)” with “The CAG” as the term “CAG” is already defined in clause 3.

Editor[J] No change as this is the first time it is used within the main body of text.

[Ed 008] Page 60, Line 43: replace “contains higher layer protocol (HLP) packets” with “contains HLP packets” as the term “HLP” is already defined in clause 3.

Editor[J] No change as this is the first time it is used within the main body of text.

[Ed 009] Page 76, Line 53: replace “A value of 1 for the CCFS-1 (channel center frequency segment 1) Presence Indicator subfield” with “A value of 1 for the CCFS-1 Presence Indicator subfield” as the term “CCFS-1” is already defined in clause 3.

Editor[J]: In styleman, first use in document body.

[Ed 010] Page 104, Lines 61-62: replace “higher layer protocol (HLP) encapsulation” with “HLP encapsulation” as the term “HLP” is already defined in clause 3.

Editor[J] No change as this is the first time it is used within the main body of text.

[Ed 011] Page 105, Line 24: replace “higher layer protocol (HLP) packets” with “HLP packets” as the term “HLP” is already defined in clause 3.

Editor[J] No change as this is the first time it is used within the main body of text.

***Do not include an abbreviation of the name of a field in the name of the field itself, e.g., a field labeled “Number of Taps (N\_taps)” is wrong.***

[Ed 012] Page 4, Line 20: delete ”ANTO AP’s Next TBTT Offset”.

Editor[A]

[Ed 013] Page 47, Lines 31-32: replace “the AP’s Next TBTT Offset (ANTO) subfield” with “the AP’s Next TBTT Offset subfield”.

Editor[A]

[Ed 014] Page 48, Line 31: replace “The AP’s Next TBTT Offset (ANTO) subfield” with “The AP’s Next TBTT Offset subfield”.

Editor[A]

[Ed 015] Page 77, Line 12: replace “The AP’s Next TBTT Offset (ANTO) subfield” with “The AP’s Next TBTT Offset subfield”.

Editor[A]

[Ed 016] Page 103, Line 43: replace “the Channel Center Frequency Segment 1 (CCFS-1) field” with “the Channel Center Frequency Segment 1 field”.

Editor[A]: Instruct Editor to remove the abbreviation from Clause 3, as CCFS-1 is only used twice in the draft.

**Clause 2.16: Hanging Paragraphs**

***A paragraph that occurs between a heading and children of that heading is called a hanging paragraph. It is not allowed because the scope of a reference to the heading is unclear***

[Ed 017] Page 8, Lines 3-18: There are 4 hanging paragraphs between the new clause 4.10.3.6 and the new child clause 4.10.3.6.1.

Editor[M]: Instruct Editor to add a new clause 4.10.3.6.1 General for the hanging paragraphs and change the existing 4.10.3.6.1 and 4.10.3.6.2 accordingly.

[Ed 018] Page 61, Lines 18-44: There are 3 hanging paragraphs between the new clause 8.4.2.181 and the new child clause 8.4.2.181.1.

Editor[M]: Instruct Editor to add a new child clause 8.4.2.181.1 General for the hanging paragraphs, and change the existing 8.4.2.181.1 and 8.4.2.181.2 accordingly

[Ed 019] Page 81, Lines 41-54: There is a hanging paragraph between the new clause 8.6.24 and the new child clause 8.6.24.1.

Editor[M]: Instruct Editor to add a new child clause 8.6.24.1 General for the hanging paragraphs, and change the existing 8.6.24.1 to 8.6.24.2

[Ed 020] Page 104, Lines 60-65 AND Page 105, Lines 113: There are 3 hanging paragraphs between the new clause 10.45.3 and the new child clause 10.45.3.1.

Editor[M]: Instruct Editor to add a new child clause 10.45.3.1 General for the hanging paragraphs, and change the existing 10.45.3.1 and other clause accordingly

[Ed 021] Page 108, Lines 57-60: There is a hanging paragraph between the new clause 10.45.5 and the new child clause 10.45.5.1.

Editor[M]: Instruct Editor to add a new child clause 10.45.5.1 General for the hanging paragraphs, and change the existing 10.45.5.1 and other clause accordingly

[Ed 022] Page 119, Lines 59-65: There is a hanging paragraph between the new clause 11.11 and the new child clause 11.11.1.

Editor[M]: Instruct Editor to add a new child clause 11.11.1. General, and restructure the paragraphs and delete existing 11.11.1 clause title.

[Ed 023] Page 120, Lines 33-43: There are 3 hanging paragraphs between the new subclause 11.11.2 and the new child subclause 11.11.2.1.

Editor[M]: Instruct Editor to add a new child clause 11.11.2.1 for the hanging paragraphs, and change the existing 11.11.2.1 and other clause accordingly

[Ed 024] Page 121, Lines 18-20: There is a hanging paragraph between the new subclause 11.11.2.2 and the new child subclause 11.11.2.2.1.

Editor[M]: move the hanging paragraphs to 11.11.2.1

[Ed 025] Page 127, Lines 3-16: There are 3 hanging paragraphs between the new subclause 11.11.2.4 and the new child subclause 11.11.2.4.1.

Editor[M]: Instruct Editor to add a new child clause 11.11.2.4.1 General for the hanging paragraphs, and change the existing 11.11.2.4.1 and other clause accordingly

[Ed 026] Page 128, Lines 43-45: There is a hanging paragraph between the new subclause 11.11.2.5 and the new child subclause 11.11.2.5.1.

Editor[M]: Instruct Editor to add a new child clause 11.11.2.5.1 General for the hanging paragraphs, and change the existing 11.11.2.5.1 and other clause accordingly

**Clause 2.15: References to MIB variables/attributes**

N/A

**Clause 2.14: References to the contents of a field/subfield**

[Ed 027] Page 47, Lines 60-61: Replace “When the value of TBTT Information Length is greater than or equal to 1, the TBTT Information field contains the TBTT Offset subfield” with “When the TBTT Information Length subfield is non-zero, the TBTT Information field contains the TBTT Offset subfield”.

Editor[A]

***The use of “value of <field> field” is deprecated***

[Ed 028] Page 46, Lines 13-14: Replace “Otherwise the value of the FILS Capability field is 0” with “Otherwise the FILS Capability field is 0”.

Editor[A]

[Ed 029] Page 47, Lines 23-24: Replace “The value of TBTT Information Length field is either 1, 5, 7, or 11 based on the fields in TBTT Offset subfield” with “The TBTT Information Length field is either 1, 5, 7, or 11 based on the fields in TBTT Offset subfield”.

Editor[A]

[Ed 030] Page 62, Lines 61-62: Replace “The value of the DNS Server Address Request subfield is 1 if the STA is requesting DNS server(s) address(es)” with “The DNS Server Address Request subfield is 1 if the STA is requesting DNS server(s) address(es)”.

Editor[A]

[Ed 031] Page 76, Lines 31-32: Replace “the value of the SSID Length subfield is equal to 3” with “the SSID Length subfield is equal to 3”.

Editor[A]

[Ed 032] Page 76, Lines 34-35: Replace “A value of 1 for the Capability Presence Indicator subfield indicates that the FD Capability subfield is present in the FILS Discovery frame” with “The Capability Presence Indicator subfield of 1 indicates that the FD Capability subfield is present in the FILS Discovery frame”.

Editor[A]

[Ed 033] Page 76, Lines 39-40: Replace “A value of 1 for the Short SSID Indicator subfield indicates that a Short SSID is contained in the SSID/Short SSID field of the FILS Discovery frame” with “The Short SSID Indicator subfield of 1 indicates that a Short SSID is contained in the SSID/Short SSID field of the FILS Discovery frame”.

Editor[A]

[Ed 034] Page 76, Lines 44-45: Replace “A value of 1 for the AP-CSN Presence Indicator subfield indicates that the AP-CSN subfield is present in the FILS Discovery frame” with “The AP-CSN Presence Indictor subfield of 1 indicates that the AP-CSN subfield is present in the FILS Discovery frame”.

Editor[A]

[Ed 035] Page 76, Lines 49-50: Replace “A value of 1 for the ANO Presence Indicator subfield indicates that the ANO subfield is present in the FILS Discovery frame” with “The ANO Presence Indicator subfield of 1 indicates that the ANO subfield is present in the FILS Discovery frame”.

Editor[A]

[Ed 036] Page 76, Lines 53-54: Replace “A value of 1 for the CCFS-1 (channel center frequency segment 1) Presence Indicator subfield indicates that the Channel Center Frequency Segment 1 subfield is present in the FILS Discovery frame” with “The CCFS-1 Presence Indicator subfield of 1 indicates that the Channel Center Frequency Segment 1 subfield is present in the FILS Discovery frame”.

Editor[A]

[Ed 037] Page 76, Lines 57-58: Replace “A value of 1 for the Primary Channel Presence Indicator subfield indicates that the Primary Channel and the Operating Class subfields are present in the FILS Discovery frame” with “The Primary Channel Presence Indicator subfield of 1 indicates that the Primary Channel and the Operating Class subfields are present in the FILS Discovery frame”.

Editor[A]

[Ed 038] Page 76, Lines 62-63: Replace “A value of 1 for the FD RSN Information Presence Indicator subfield indicates that the FD RSN information subfield is present in the FILS Discovery frame” with “The FD RSN Information Presence Indicator subfield of 1 indicates that the FD RSN information subfield is present in the FILS Discovery frame”.

Editor[A]

[Ed 039] Page 77, Lines 1-2: Replace “A value of 1 for the Length Presence Indicator subfield indicates that the Length field is present in the FILS Discovery frame” with “The Length Presence Indicator subfield of 1 indicates that the Length field is present in the FILS Discovery frame”.

Editor[A]

[Ed 040] Page 77, Lines 5-6: Replace “When the value of the Short SSID Indicator subfield is equal to 1” with “When the Short SSID Indicator subfield is 1”.

Editor[A]

[Ed 041] Page 100, Lines 10-11: Replace “If an MM-SME coordinated STA receives an Association Response frame with a result code equal to SUCCESS and with the value of the Single AID field within MMS element equal to 1” with “If an MM-SME coordinated STA receives an Association Response frame with a result code equal to SUCCESS and with the Single AID field within MMS element equal to 1”.

Editor[A]

***As referred to Clause 3.2, FILSC is a value that indicates the priority category of the station for fast initial link setup.***

[Ed 042] Page 109, Lines 42-44: Replace “If the non-AP STA satisfies all of the conditions specified in the present optional fields the non-AP STA has an FILSC value of 1 and it proceeds with a FILS with the AP without additional delays” with “If the non-AP STA satisfies all of the conditions specified in the present optional fields the non-AP STA has an FILSC of 1 and it proceeds with a FILS with the AP without additional delays”

Editor[A]

[Ed 043] Page 109, Line 44: Replace “the non-AP STA shall have a FILSC value of 0” with “the non-AP STA shall have a FILSC of 0”.

Editor[A]

[Ed 044] Page 109, Line 48: Replace “update its FILSC value” with “update its FILSC”.

Editor[A]

***Others***

[Ed 045] Page 63, Line 25: Replace “The Requested IPv6 Address (16 octets) field” with “The Requested IPv6 Address field (16 octets)”.

Editor[A]

[Ed 046] Page 66, Line 36: Replace “DNS Info Control” with “DNS Info Control subfield”.

Editor[A]

[Ed 047] Page 66, Lines 49-50: Replace “DNS Info Control” with “DNS Info Control subfield”.

Editor[A]

[Ed 048] Page 66, Lines 60-61: Replace “DNS Info Control” with “DNS Info Control subfield”.

Editor[A]

[Ed 049] Page 76, Line 62: Replace “FD RSN Information Presence Indicator subfield” with “RSN Information Presence Indicator subfield”.

Editor[A]

**Clause 2.13: References to SAP primitives**

[Ed 050] Page 13, Line 20: Replace “MLME-SCAN.request” with “MLME-SCAN.request primitive”.

Editor[A]

[Ed 051] Page 57, Lines 19-20: Referring to the sentence “The AP-CSN field is 1 octet in length and is defined as an unsigned integer initialized during MLME-BSSSTART”, I do not think it is appropriate to say “during MLME-BSSSTART”. Does it actually mean “during an invocation of an MLME-BSSSTART primitive”?

Editor[J]: will be resolved in D4.3 per approved comment resolution for CID 7242.

[Ed 052] Page 85, Lines 43-44: Replace “MLME-SCAN.request” with “MLME-SCAN.request primitive”.

Editor[A]

[Ed 053] Page 85, Line 47: Replace “MLME-SCAN.request” with “MLME-SCAN.request primitive”.

Editor[A]

**Clause 2.12: Hyphenation**

[Ed 054] Page 3, Line 17: Replace “re-authentication” with “reauthentication”.

Editor[J]: This is the name from RFC

[Ed 055] Page 3, Line 18: Replace “re-authentication” with “reauthentication”.

Editor[A]

[Ed 056] Page 4, Line 27: Replace “re-authentication” with “reauthentication”.

Editor[J]: This is the name from RFC

[Ed 057] Page 57, Line 21: Replace “non-dynamic” with “nondynamic”.

Editor[A]: “nondynamic” is not covered in editorial-style-guide yet.

[Ed 058] Page 94, Line 21: Replace “Un-associated” with “Unassociated”.

Editor[A]

[Ed 059] Page 94, Line 42: Replace “non-mesh” with “nonmesh”.

Editor[A]

[Ed 060] Page 97, Line 1: Replace “multi-band” with “multiband”.

Editor[A]

[Ed 061] Page 111, Line 47: Replace “multi-band” with “multiband”.

Editor[A]

[Ed 062] Page 122, Lines 41, 48, 65: What are “Re-Auth” and Re-auth”?

Editor[M]: this is the message name from RFC, “Re-auth” is used in RFC 6696, so change “Re-Auth” to “Re-auth” throughout the draft.

[Ed 063] Page 123, Lines 35, 40, 52, 53, 61: What are “Re-Auth” and Re-auth”?

Editor[M]: this is the message name from RFC, “Re-auth” is used in RFC 6696, so change “Re-Auth” to “Re-auth” throughout the draft.

[Ed 064] Page 124, Lines 4, 11, 38, 55: What is “Re-auth”?

Editor[M]: this is the message name from RFC, “Re-auth” is used in RFC 6696, so change “Re-Auth” to “Re-auth” throughout the draft.

[Ed 065] Page 132, Line 25: Replace “non-persistent” with “nonpersistent”.

Editor[A]

**Clause 2.11: Maths operations and relations**

[Ed 066] Page 84, Line 24: Replace “Lmod” with “L mod”.

Editor[A]

[Ed 067] Page 84, Line 28: Replace “Lmod” with “L mod”.

Editor[A]

[Ed 068] Page 128, Line 65: What is “AP-BSSID[“ in the equation? Should it be “AP-BSSID”?

Editor[J]: “[ ]“ means that the part is optional.

[Ed 069] Page 130, Line 58: What is “STA-MAC[“ in the equation?

Editor[J]: “[ ]“ means that the part is optional.

**Clause 2.10: Numbers**

***“0s”, “1s” and “2s”, not “zeros”, “ones” and “twos”***

[Ed 070] Page 129, Line 55: Replace “zeros” with “0s”.

Editor[A]

***Others***

[Ed 071] Page 14, Line 31: Replace “0 - 255” with “0-255”.

Editor[A]

[Ed 072] Page 14, Line 61: Replace “an 80+80 operating channel” with “an 80+80 MHz operating channel”.

Editor[A]

[Ed 073] Page 36, Lines 62-63: Replace “712” with “71”.

Editor[A]

[Ed 074] Page 55, Line 54: Replace “RFC 5280” with “IETF RFC 5280”.

Editor[A]

[Ed 075] Page 55, Line 55: Replace “RFC 5480” with “IETF RFC 5480”.

Editor[A]

[Ed 076] Page 55, Line 56: Replace “RFC 3279” with “IETF RFC 3279”.

Editor[A]

[Ed 077] Page 58, Line 24: Replace “set to zero (0)” with “set to 0”.

Editor[M]: Replace “When it is set to zero (0)” with “When the Number of Public Key Identifiers is 0, ”

[Ed 078] Page 58, Line 26: Replace “Up to seven (7) Public Key Identifiers” with “Up to seven Public Key Identifiers”.

Editor[A]

[Ed 079] Page 58, Line 32: Replace “set to zero (0)” with “set to 0”.

Editor[M]: Replace “When it is set to zero (0)” with “When the Number of Domain Identifiers subfield is 0, ”

[Ed 080] Page 58, Line 34: Replace “Up to seven (7) Domain Identifiers” with “Up to seven Domain Identifiers”.

Editor[A]

[Ed 081] Page 58, Line 43: Replace “set to one (1)” with “set to 1”.

Editor[M]: duplicated comment, Page 58, Line 43,Replace “When the Cache Supported bit is set to one (1)” with “When the Cache Supported subfield is 0, ”

[Ed 082] Page 58, Line 43: Replace “a 16 octet Cache Identifier” with “a 16-octet Cache Identifier”.

Editor[A]

[Ed 083] Page 58, Line 44: Replace “set to zero (0)” with “set to 0”.

Editor[A]

[Ed 084] Page 68, Line 31: Replace “Bit0”, “Bit1”, and “Bit2” with “Bit 0”, “Bit 1”, and “Bit 2”, respectively.

Editor[A]

[Ed 085] Page 68, Line 47: Replace “B0, B1and B2” with “B0, B1 and B2”.

Editor[A]

[Ed 086] Page 69, Line 30: Replace “110 - 111” with “110-111”.

Editor[A]

[Ed 087] Page 78, Line 15: Replace “4- 7” with “4-7”.

Editor[A]

[Ed 088] Page 78, Line 38: Replace “5 to 8” with “5-8”.

Editor[A]

[Ed 089] Page 78, Line 40: Replace “5 - 7” with “5-7”.

Editor[A]

[Ed 090] Page 79, Line 56: Replace “5 - 7” with “5-7”.

Editor[A]

[Ed 091] Page 80, Line 52: Replace “0 - 13” with “0-13”.

Editor[A]

[Ed 092] Page 80, Line 55: Replace “14 - 61” with “14-61”.

Editor[A]

[Ed 093] Page 81, Line 23: Replace “4 - 13” with “4-13”.

Editor[A]

[Ed 094] Page 94, Line 35: Replace “Class1, 2 & 3 Frames” with “Class 1, 2 & 3 Frames”.

Editor[A]

[Ed 095] Page 108, Line 11: Replace “2 octet hash” with “2-octet hash”.

Editor[A]

[Ed 096] Page 108, Line 16: Replace “RFC 1035” with “IETC RFC 1035”.

Editor[M]: Replace “RFC 1035” with “IETF RFC 1035”.

[Ed 097] Page 122, Line 38: Replace “a random 16 octet nonce” with “a random 16-octet nonce”.

Editor[A]

[Ed 098] Page 122, Line 41: Replace “IETF RFC6696” with “IETC RFC 6696”.

Editor[M]: Replace “IETF RFC6696” with “IETF RFC 6696”.

[Ed 099] Page 122, Line 61: Replace “set to one (1)” with “set to 1”.

Editor[A]

[Ed 100] Page 123, Line 52: Replace “IETF RFC6696” with “IETC RFC 6696”.

Editor[M]: Replace “IETF RFC6696” with “IETF RFC 6696”.

[Ed 101] Page 124, Line 55: Replace “IETF RFC6696” with “IETC RFC 6696”.

Editor[M]: Replace “IETF RFC6696” with “IETF RFC 6696”.

[Ed 102] Page 125, Line 44: Replace “set to one (1)” with “set to 1”.

Editor[A]

[Ed 103] Page 128, Line 25: Replace “a 13 octet AEAD counter” with “a 13-octet AEAD counter”.

Editor[A]

[Ed 104] Page 128, Line 27: Replace “set the first octet to the value 128 and the remaining octets to zero” with “set the first octet to the value 128 and the remaining octets to 0”.

Editor[A]

[Ed 105] Page 132, Line 56: Replace “increment the AEAD counter by one (1)” with “increment the AEAD counter by 1”.

Editor[A]

**Clause 2.8: Terminology: frame vs packet vs PPDU vs MPDU**

***The use of “packet” should be minimized.***

[Ed 106] I find that the terms “EAP-Initiate/Re-auth packet” (e.g., Page 123, Line 52) and “EAP-Initiate/Re-auth message” (e.g., Page 124, Line 5) are used interchangeably. Which one is more appropriate?

Editor[M]: In IETF RFC 6696, both “EAP-Initiate/Re-auth packet” and “EAP-Initiate/Re-auth message” are used. Suggest replace ““EAP-Initiate/Re-auth message” with “EAP-Initiate/Re-auth packet” .

**Clause 2.7: Capitalization**

***Subfield***

[Ed 107] Page 47, Line 55: Replace “when the TBTT Information Field Type is 0” with “when the TBTT Information Field Type subfield is 0”.

Editor[A]

[Ed 108] Page 48, Line 8: “Replace TBTT Information field format when TBTT Information Field Type is 0” with “Replace TBTT Information field format when TBTT Information Field Type subfield is 0”.

Editor[A]

[Ed 109] Page 48, Line 16: Replace “when TBTT Information Field Type is equal to 1” with “when TBTT Information Field Type subfield is equal to 1”.

Editor[A]

[Ed 110] Page 48, Line 27: “Replace TBTT Information field format when TBTT Information Field Type is 1” with “Replace TBTT Information field format when TBTT Information Field Type subfield is 1”.Editor[A]

[Ed 111] Page 50, Line 27: Replace “The Partial Advertisement Protocol ID is a 5-bit subfield carrying” with “The Partial Advertisement Protocol ID subfield is 5 bits in length and carries”.

Editor[A]

[Ed 112] Page 54, Line 15: Replace “The Number of Hashes Domain Names field” with “The Number of Hashes Domain Names subfield”.

Editor[A]

[Ed 113] Page 54, Line 19: Replace “Hashed Domain Names” with “Hashed Domain Names subfield”.

Editor[A]

[Ed 114] Page 58, Line 22: Replace “Number of Public Key Identifiers” with “Number of Public Key Identifiers subfield”.

Editor[A]

[Ed 115] Page 58, Line 22: Replace “lists the number of Public Key Identifiers” with “lists the number of public key identifiers”.

Editor[A]

[Ed 116] Page 58, Line 30: Replace “Number of Domain Identifiers” with “Number of Domain Identifiers subfield”.

Editor[A]

[Ed 117] Page 59, Line 8: Replace “The IP Address Type is set” with “The IP Address Type subfield is set”.

Editor[A]

[Ed 118] Page 59, Lines 8-9: Replace “Subnet ID Token” with “Subnet ID Token subfield”.

Editor[A]

[Ed 119] Page 59, Line 15: Replace “IP Address Type” with “IP Address Type subfield”.

Editor[A]

[Ed 120] Page 59, Line 18: Replace “IP Address Type” with “IP address type”.

Editor[A]

[Ed 121] Page 59, Line 52: Replace “The Length indicates the length in octets of the Public Key Indicator” with “The Length subfield indicates the length in octets of the Public Key Indicator subfield”.

Editor[A]

[Ed 122] Page 60, Line 4: Replace “Key Type and Public Key Indicator” with “Key Type and Public Key Indicator subfields”.

Editor[A]

[Ed 123] Page 60, Line 7: Replace “Key Type” with “Key type”.

Editor[M]: Replace “Key Type” with “Key Type subfiled”

[Ed 124] Page 60, Line 7: Replace “Public Key Indicator” with “Public key indicator”.

Editor[M]: Replace “Public Key Indicator” with “Public Key Indicator subfiled”

[Ed 125] Page 60, Line 26: Replace “The IP Address Type and Subnet ID Token” with “The IP Address Type and Subnet ID Token subfields”.

Editor[A]

[Ed 126] Page 60, Line 27: Replace “The IP Address Type is set” with “The IP Address Type subfield is set”.

Editor[A]

[Ed 127] Page 60, Line 28: Replace “the Subnet ID Token is” with “the Subnet ID Token subfield is”.

Editor[A]

[Ed 128] Page 61, Line 6: Replace “source MAC address field” with “Source MAC Address field”.

Editor[A]

[Ed 129] Page 63, Line 40: Replace “IP Address Data Field” with “IP Address Data field”.

Editor[A]

[Ed 130] Page 65, Lines 12-13: Replace “if the assigned IPv4 address are” with “if the Assigned IPv4 Address subfields are”.

Editor[A]

[Ed 131] Page 65, Lines 15-17: Replace “IPv4 Gateway address and IPv4 Gateway MAC address are included in the element” with “IPv4 Gateway Address and IPv4 Gateway MAC Address subfields are included in the element”

Editor[A]

[Ed 132] Page 65, Lines 20-21: Replace “Assigned IPv6 address and IPv6 Prefix Length are included in the element” with “Assigned IPv6 Address and IPv6 Prefix Length subfields are included in the element”

Editor[A]

[Ed 133] Page 65, Lines 24-26: Replace “IPv6 Gateway address and IPv6 Gateway MAC address are included in the element” with “IPv6 Gateway Address and IPv6 Gateway MAC Address subfields are included in the element”

Editor[A]

[Ed 134] Page 65, Line 28: Replace “IPv4 Assigned subfield” with “Assigned IPv4 Address subfield”.

Editor[A]

[Ed 135] Page 65, Lines 30-31: Replace “If this subfield is 0, and if IPv4 Assigned is 1” with “If this bit is 0, and if Assigned IPv4 Address subfield is 1”.

Editor[A]

[Ed 136] Page 65, Line 35: Replace “IPv6 Assigned subfield” with “Assigned IPv6 Address subfield”.

Editor[A]

[Ed 137] Page 65, Lines 37-38: Replace “If this subfield is 0, and if IPv6 Assigned is 1” with “If this bit is 0, and if Assigned IPv6 Address subfield is 1”.

Editor[A]

[Ed 138] Page 66, Lines 31-32: Replace “An AP sets this bit to 1 if the IPv4 DNS server IPv4 address is present in the element” with “An AP sets this bit to 1 if the DNS Server IPv4 Address subfield is present in the element”.

Editor[A]

[Ed 139] Page 66, Line 33: Replace “The value of the DNS Server IPv4 Address is the” with “The value of the DNS Server IPv4 Address subfield is the”.

[Ed 140] Page 66, Line 35: Replace “DNS Info Control” with “DNS Info Control subfield”.

Editor[A]

[Ed 141] Page 66, Lines 38-39: Replace “An AP sets this bit to 1 if the IPv6 DNS server IPv6 address is present in the element” with “An AP sets this bit to 1 if the DNS Server IPv6 Address subfield is present in the element”.

Editor[A]

[Ed 142] Page 66, Line 46: Replace “The value of the IPv4 DNS Server MAC Address is” with “The value of the IPv4 DNS Server MAC Address subfield is”.

Editor[A]

[Ed 143] Page 66, Lines 49-50: Replace “DNS Info Control” with “DNS Info Control subfield”.

Editor[A]

[Ed 144] Page 66, Line 57: Replace “The value of the IPv6 DNS Server MAC Address is” with “The value of the IPv6 DNS Server MAC Address subfield is”.

Editor[A]

[Ed 145] Page 66, Lines 60-61: Replace “DNS Info Control” with “DNS Info Control subfield”.

Editor[A]

[Ed 146] Page 68, Line 41: Replace “An AP sets the FILS User Priority B0 to 1” with “An AP sets the FILS User Priority Bit 0 subfield to 1”.

Editor[A]

[Ed 147] Page 68, Line 42: Replace “An AP sets the FILS User Priority B1 to 1” with “An AP sets the FILS User Priority Bit 1 subfield to 1”.

Editor[A]

[Ed 148] Page 68, Line 42: Replace “An AP sets the FILS User Priority B2 to 1” with “An AP sets the FILS User Priority Bit 2 subfield to 1”.

Editor[A]

[Ed 149] Page 69, Line 3: Replace “The values of Bit Pattern bits specify” with “The Bit Pattern subfield specifies”.

Editor[A]

[Ed 150] Page 69, Line 38: Replace “Values of 1 of the FILS User Priority B0 indicates” with “FILS User Priority Bit 0 subfield of 1 indicates”.

Editor[A]

[Ed 151] Page 69, Line 39: Replace “B1, indicates” with “FILS User Priority Bit 1 subfield of 1 indicates”.

Editor[A]

[Ed 152] Page 69, Line 40: Replace “B2, indicates” with “FILS User Priority Bit 2 subfield of 1 indicates”.

Editor[A]

[Ed 153] Page 72, Line 22: Replace “AP List length” with “AP List Length”.

Editor[A]

[Ed 154] Page 72, Line 22: Replace “AP1 identifier” with “AP1 Identifier”.

Editor[A]

[Ed 155] Page 72, Line 22: Replace “APn identifier” with “APn Identifier”.

Editor[A]

[Ed 156] Page 76, Line 35: Replace “FD capability subfield” with “FD Capability subfield”.

Editor[A]

[Ed 157] Page 76, Line 55: Replace “Channel Center Frequency Segment 1” with “Channel Center Frequency Segment 1 subfield”.

Editor[A]

[Ed 158] Page 76, Lines 62-63: Replace “FD RSN information subfield” with “FD RSN Information subfield”.

Editor[A]

[Ed 159] Page 76, Lines 63-64: Replace “FD RSN information subfield” with “FD RSN Information subfield”.

Editor[A]

[Ed 160] Page 77, Line 8: Replace “FILS Discovery Frame Control” with “FILS Discovery Frame Control subfield”.

Editor[A]

[Ed 161] Page 77, Line 22: Replace “FILS Discovery Frame Control” with “FILS Discovery Frame Control subfield”.

Editor[A]

[Ed 162] Page 77, Line 51: Replace “The subfields ESS and Privacy” with “The ESS and Privacy subfields”.

Editor[A]

[Ed 163] Page 78, Lines 26-27: Replace “Number of Spatial Streams subfield” with “Maximum Number of Spatial Streams subfield”.

Editor[M]: Replace “Maximum Numberof Spatial Streams” with “Maximum Number of Spatial Streams subfield”.

[Ed 164] Page 79, Line 7, second column: Replace “PHY Index” with “PHY index”.

Editor[A]

[Ed 165] Page 79, Lines 34-35: There is no PHY Type subfield in the FD Capability subfield. I wonder the correctness of the sentence “the minimum rate can be derived from the MCS value and PHY Type in the FD Capability subfield”.

Editor[J] Discussed: agree to reject this comment and submit as a comment in the next substantive ballot.

[Ed 166] Page 80, Lines 24-27: Replace “Group Mgmt Cipher Suite Selector” with “Group Management Cipher Suite Selector”.

Editor[A]

[Ed 167] Page 80, Line 35: Replace “FD RSN information subfield” with “FD RSN Information subfield”.

Editor[A]

[Ed 168] Page 80, Line 39: Replace “FD RSN information subfield” with “FD RSN Information subfield”.

Editor[A]

[Ed 169] Page 80, Line 39: Replace “Cipher Suite Selectors” with “cipher suite selectors”.

Editor[M]: Make changes as shown.

The FD RSN information subfield also contains three cipher suite selectors. The Group Data Cipher Suite Selector subfield contains one group data cipher suite selector, The Group Management Cipher Suite Selector subfield contains one group management cipher suite selector. The Pairwise Cipher Suite Selector subfield contains one pairwise cipher suite selector. Each of these subfield contains a code identifying a Cipher Suite Type as specifiedin Table 8-138 (Cipher suite selectors). The definition of the cipher suite selectors is shown in Table 8-309f (Cipher Suite Selector Definitions).

[Ed 170] Page 80, Lines 39-40: Replace “Group Data Cipher Suite selector” with “group data cipher suite selector”

Editor[M]: As above.

[Ed 171] Page 80, Lines 40-41: Replace “Pairwise Cipher Suite Selector” with “pairwise cipher suite selector”.

Editor[M]: As above.

[Ed 172] Page 80, Line 41: Replace “Each Cipher Suite selector” with “Each cipher suite selector”.

Editor[M]: As above.

[Ed 173] Page 80, Line 41: Replace “Cipher Suite Type” with “cipher suite type”.

Editor[M]: As above.

[Ed 174] Page 80, Line 42: Replace “The definition of the Cipher Suite Selectors” with “The definition of the cipher suite selectors”.

Editor[M]: As above.

[Ed 175] Page 80, Line 50: Replace “Cipher Suite Selector” with “Cipher suite selector”.

Editor[A]

[Ed 176] Page 80, Line 50: Replace “Cipher Suite Type” with “Cipher suite type”.

Editor[A]

[Ed 177] Page 80, Line 52: Replace “Cipher Suite Type” with “Cipher suite type”.

Editor[A]

[Ed 178] Page 81, Line 1: Replace “AKM Suite Selector” with “AKM suite selector”.

Editor[A]

[Ed 179] Page 81, Line 1: Replace “Cipher Suite selector” with “cipher suite selector”.

Editor[A]

[Ed 180] Page 81, Line 2: Replace “AKM Suite Type” with “AKM suite type”.

Editor[A]

[Ed 181] Page 81, Lines 2-3: Replace “AKM Suite Selectors” with “AKM suite selectors”.

Editor[A]

[Ed 182] Page 81, Line 9: Replace “AKM Suite Selector” with “AKM suite selector”.

Editor[A]

[Ed 183] Page 81, Line 9: Replace “AKM Suite Type” with “AKM suite type”.

Editor[A]

[Ed 184] Page 81, Line 14: Replace “AKM Suite” with “AKM suite”.

Editor[A]

[Ed 185] Page 81, Line 17: Replace “AKM Suite” with “AKM suite”.

Editor[A]

[Ed 186] Page 81, Line 20: Replace “AKM Suite” with “AKM suite”.

Editor[A]

[Ed 187] Page 110, Line 1: Replace “OI subfield” with “OUI subfield”.

Editor[A]

***Field***

[Ed 188] Page 48, Lines 22-23: Replace “APs Next TBTT Offset” with “AP’s Next TBTT Offset”.

Editor[A]

[Ed 189] Page 48, Line 39: Replace “Short-SSID” with “Short-SSID field”.

Editor[A]

[Ed 190] Page 49, Line 23: Replace “Association Timeout Info” with “Association Delay Info field”.

Editor[A]

[Ed 191] Page 49, Line 55: Replace “CAG Tuple#1” with “CAG Tuple #1”.

Editor[A]

[Ed 192] Page 55, Line 63: Replace “length field” with “Length field”.

Editor[A]

[Ed 193] Page 58, Line 25: Replace “Each Public Key Identifier is formatted” with “Each public key identifier is formatted”.

Editor[A]

[Ed 194] Page 58, Line 26: Replace “Public Key Identifiers may be carried in a FILS Indication element” with “Public Key Identifiers field may be carried in a FILS Indication element”.

Editor[A]

[Ed 195] Page 58, Line 30: Replace “lists the number of Domain Identifier” with “lists the number of domain identifiers”.

Editor[A]

[Ed 196] Page 58, Line 33: Replace “Each Domain Identifier is formatted” with “Each domain identifier is formatted”.

Editor[A]

[Ed 197] Page 58, Line 34: Replace “Domain Identifiers may be carried in FILS Indication element” with “Domain Identifiers field may be carried in FILS Indication element”.

Editor[A]

[Ed 198] Page 58, Lines 37-38: Replace “The IP Address Information Present bit indicates that IP address information is included in all Public Key Identifiers and Domain Identifiers appended to the FILS Indication element” with “The IP Address Information Present bit indicates that IP address information is included in all Public Key Identifiers fields and Domain Identifiers fields appended to the FILS Indication element”

Editor[A]

[Ed 199] Page 58, Line 43: Replace “Cache Identifier is present” with “Cache Identifier field is present”.

Editor[A]

[Ed 200] Page 58, Line 44: Replace “Cache Identifier is not present” with “Cache Identifier field is not present”.

Editor[A]

[Ed 201] Page 58, Line 45: Replace “The content of the Cache Identifier” with “The content of the Cache Identifier field”.

Editor[A]

[Ed 202] Page 58, Line 65: Replace “Domain Identifier” with “Domain Identifier field”.

Editor[A]

[Ed 203] Page 59, Line 1: Replace “The value of the Hashed Domain Name field of the Domain Identifier entry” with “The value of the Hashes Domain Name subfield of the Domain Identifier field”.

Editor[A]

[Ed 204] Page 59, Line 47: Replace “Public Key Indicator” with “Public Key Indicator field”.

Editor[A]

[Ed 205] Page 59, Line 50: Replace “The Key Type and Public Key Indicator values are described” with “The Key Type and Public Key Indicator subfields are described”.

Editor[A]

[Ed 206] Page 67, Line 26: Replace “Key RSC” with “Key RSC field”.

Editor[A]

[Ed 207] Page 67, Line 28: Replace “KDE field” with “KDE List field”.

Editor[A]

[Ed 208] Page 70, Line 7: Replace “length field” with “Length field”.

Editor[A]

[Ed 209] Page 70, Line 19: Replace “length field” with “Length field”.

Editor[A]

[Ed 210] Page 70, Line 55: Replace “PMKID Count” with “PMKID count”.

Editor[A]

[Ed 211] Page 71, Line 4: Replace “Sequence of PMKIDs” with “Sequence of PMKIDs field”.

Editor[A]

[Ed 212] Page 71, Line 6: Replace “Sequence of PMKIDs” with “Sequence of PMKIDs field”.

Editor[A]

[Ed 213] Page 72, Lines 16-17: Replace “The Info IDs included in the Query AP List ANQP-element are ordered by increasing Info ID value” with “The info IDs included in the Query AP List ANQP-element are ordered by increasing info ID value”.

Editor[A]

[Ed 214] Page 72, Line 17: Replace “AP List” with “AP List field”.

Editor[A]

[Ed 215] Page 72, Line 32: Replace “AP List” with “AP list”.

Editor[A]

[Ed 216] Page 72, Line 38: Replace “Each ANQP Query ID field value is an Info ID drawn from” with “Each ANQP Query ID field is an info ID drawn from”.

Editor[M]: remove “an Info ID”

[Ed 217] Page 73, Line 29: Replace “Domains” with “domain”.

Editor[A]

[Ed 218] Page 73, Line 62: Replace “Info IDs” with “info IDs”.

Editor[A]

[Ed 219] Page 73, Line 63: Replace “ANQP CAG Version” with “ANQP CAG version”.

Editor[A]

[Ed 220] Page 74, Line 1: Replace “Info IDs” with “info IDs”.

Editor[A]

[Ed 221] Page 74, Lines 18-19: Replace “The ANQP CAG Version changes” with “The ANQP CAG version changes”.

Editor[A]

[Ed 222] Page 74, Line 19: Replace “Info IDs” with “info IDs”.

Editor[A]

[Ed 223] Page 74, Line 24: Replace “The Info ID field value represents an ANQP-element Info ID specified” with “The Info ID field represents info ID of an ANQP-element specified”.

Editor[A]

[Ed 224] Page 102, Lines 59-60: Replace “Authentication algorithm number field” with “Authentication Algorithm Number field”.

Editor[A]

[Ed 225] Page 103, Line 12: Replace “Authentication algorithm number field” with “Authentication Algorithm Number field”.

Editor[A]

[Ed 226] Page 108, Line 9: Replace “hashed domain name field” with “Hashed Domain Name field”.

Editor[A]

[Ed 227] Page 122, Line 65 AND Page 123, Line 1: Replace “FILS wrapped data field” with “FILS Wrapped Data field”.

Editor[A]

[Ed 228] Page 123, Line 41: Replace “FILS wrapped data field” with “FILS Wrapped Data field”

Editor[A]

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[Ed 229] Page 130, Lines 1-2: Replace “The AP compares Key-Auth’ with the Key-Auth field in the FILS Key Confirmation element of the received frame” with “The AP compares Key-Auth’ with the KeyAuth field in the FILS Key Confirmation element of the received frame”

Editor[A]: Replace “Key-Auth field” with “KeyAuth field”

[Ed 230] Page 130, Line 6: Replace “Key-Auth field” with “KeyAuth field”.

Editor[A]

[Ed 231] Page 130, Line 52: Replace “Key Auth field” with “KeyAuth field”.

Editor[A]

[Ed 232] Page 131, Line 8: Replace “Key Auth field” with “KeyAuth field”.

Editor[A]

[Ed 233] Page 131, Line 63: Replace “Key-Auth field” with “KeyAuth field”.

Editor[A]

[Ed 234] Page 132, Line 2: Replace “Key-Auth field” with “KeyAuth field”.

Editor[A]

[Ed 235] Page 38, Lines 5-6, third column: Replace “FILS Authentication Type” with “FILS Authentication Type field”.

Editor[A]

[Ed 236] Page 38, Line 14, third column: Replace “FILS Nonce” with “FILS Nonce field”.

Editor[A]

[Ed 237] Page 38, Line 21, third column: Replace “PKMID List” with “PKMID List field”.

Editor[A]

[Ed 238] Page 38, Line 29, third column: Replace “FILS Session” with “FILS Session field”.

Editor[A]

[Ed 239] Page 38, Line 37, third column: Replace “FILS Wrapped Data” with “FILS Wrapped Data field”.

Editor[A]

[Ed 240] Page 39, Line 12: Replace “FILS Authentication Type” with “FILS Authentication Type field”.

Editor[A]

[Ed 241] Page 39, Line 15: Replace “FILS Nonce” with “FILS Nonce field”.

Editor[A]

[Ed 242] Page 39, Line 22: Replace “Finite cyclic group” with “Finite Cyclic Group field”.

Editor[A]

[Ed 243] Page 39, Line 39: Replace “Status is 0” with “status is 0”.

Editor[M]: Change “Status is 0” to “Status Code field is 0”

[Ed 244] Page 39, Line 41: Replace “Status is 0” with “status is 0”.

Editor[M]: Change “Status is 0” to “Status Code field is 0”

[Ed 245] Page 39, Line 60: Replace “Status is 0” with “status is 0”.

Editor[M]: Change “Status is 0” to “Status Code field is 0”

[Ed 246] Page 40, Line 37: Replace “Status code field” with “Status Code field”.

Editor[A]

[Ed 247] Page 123, Line 20: Replace “Status” with “status code”.

Editor[M]: Change “Status” to “Status Code field”

[Ed 248] Page 123, Line 37: Replace “Status” with “status code”.

Editor[M]: Change “Status” to “Status Code field”

[Ed 249] Page 123, Line 57: Replace “Authentication algorithm number” with “Authentication Algorithm Number field”.

Editor[A]

[Ed 250] Page 123, Line 58: Replace “Status” with “status code”.

Editor[M]: Change “Status” to “Status Code field”

[Ed 251] Page 124, Line 6: Replace “Status” with “status code”.

Editor[M]: Change “Status” to “Status Code field”

[Ed 252] Page 124, Line 34: Replace “Authentication algorithm number” with “Authentication Algorithm Number field”.

Editor[A]

[Ed 253] Page 124, Line 41: Replace “Status” with “status code”.

Editor[M]: Change “Status” to “Status Code field”

***Element***

[Ed 254] Page 32, Line 38: Replace “FILS Session.element” with ‘FILS Session element”.

Editor[A]

[Ed 255] Page 32, Line 49: Replace “element” with “elements”.

Editor[A]

[Ed 256] Page 33, Line 22: Replace “element” with “elements”.

Editor[A]

[Ed 257] Page 34, Line 24: Replace “element” with “elements”.

Editor[A]

[Ed 258] Page 35, Line 23: Replace “element” with “elements”.

Editor[A]

[Ed 259] Page 39, Line 26: Replace “Element” with “Element field”.

Editor[A]

[Ed 260] Page 38, Lines 44-45, third column: Replace “Association Delay Info” with “Association Delay Info element”.

Editor[A]

[Ed 261] Page 39, Line 52: Replace “PMKID list” with “PMKID List element”.

Editor[A] check the table for similar issues.

[Ed 262] Page 70, Line 52: Replace “PMKID list element” with “PMKID List element”.

Editor[A]

[Ed 263] Page 70, Line 56: Replace “PMKID list element” with “PMKID List element”.

Editor[A]

[Ed 264] Page 70, Line 65: Replace “PMKID list element” with “PMKID List element”.

Editor[A]

[Ed 265] Page 83, Line 18: Replace “fragment element” with “Fragment element”.

Editor[A]

[Ed 266] Page 83, Line 20: Replace “A fragment element and the series of one or more fragment elements” with “A Fragment element and the series of one or more Fragment elements”.

Editor[M]: Replace “A fragment element and the series of one or more fragment elements” with “A fragmented element and the series of one or more Fragment elements”

[Ed 267] Page 83, Line 21: Replace “fragment element” with “Fragment element”.

Editor[M]: Replace “fragment element” with “fragmented element”.

[Ed 268] Page 83, Line 32: Replace “fragment elements” with “Fragment elements”.

Editor[A]

[Ed 269] Page 84, Line 1: Replace “fragment element” with “Fragment element”. There are two appearances.

Editor[A]

[Ed 270] Page 84, Line 22: Replace “fragment element” with “Fragment element”.

Editor[M]: Replace “fragment element” with “fragmented element”.

[Ed 271] Page 84, Line 23: Replace “fragment element” with “Fragment element”.

Editor[A]

[Ed 272] Page 84, Line 27: Replace “fragment element” with “Fragment element”.

Editor[A]

[Ed 273] Page 84, Line 46: Replace “fragment elements” with “Fragment elements”.

Editor[A]

[Ed 274] Page 84, Line 48: Replace “fragment elements” with “Fragment elements”.

Editor[A]

[Ed 275] Page 84, Line 50: Replace “fragment element” with “Fragment element”.

Editor[A]

[Ed 276] Page 90, Lines 1-2: Replace “the Reduced Neighbor Report Request element ID” with “the element ID of the Reduced Neighbor Report Request element”.

Editor[A]

[Ed 277] Page 99, Line 19: Replace “Association Timeout Info element” with “Association Delay Info element”.

Editor[A]

[Ed 278] Page 99, Line 21: Replace “Association Timeout Info element” with “Association Delay Info element”.

Editor[A]

[Ed 279] Page 103, Line 10: Replace “AP-CSN” with “AP-CSN element”.

Editor[A]

[Ed 280] Page 121, Lines 38-39: Replace “FILS wrapped data element” with “FILS Wrapped Data element”.

Editor[A]

[Ed 281] Page 121, Line 40: Replace “FILS wrapped data element” with “FILS Wrapped Data element”.

Editor[A]

[Ed 282] Page 121, Line 44: Replace “FILS wrapped data element” with “FILS Wrapped Data element”.

Editor[A]

[Ed 283] Page 122, Line 65: Replace “PKMID list elements” with “PMKID List elements”.

Editor[A]

[Ed 284] Page 123, Line 27: Replace “PKMID list element” with “PMKID List element”.

Editor[A]

[Ed 285] Page 123, Line 29: Replace “PKMID list element” with “PMKID List element”.

Editor[A]

[Ed 286] Page 123, Line 34: Replace “PKMID list element” with “PMKID List element”.

Editor[A]

***Frame***

[Ed 287] Page 13, Line 12: Replace “FILSDiscovery frames” with “FILS Discovery frames”.

Editor[A]

[Ed 288] Page 39, Line 56: Replace “(Re)Association Response” with “(Re)Association Response frame”.

Editor[A]

[Ed 289] Page 39, Line 57: Replace “Re)Association Response” with “(Re)Association Response frame”.

Editor[A]

[Ed 290] Page 61, Line 42: Replace “Association/Reassociation Response” with “(Re)Association Response frame”.

Editor[A] also change “Association/Reassociation Request” to “(Re)Association Request” in line 39

[Ed 291] Page 81, Lines 12-13: Replace “RSN IE Beacon/Probe Response” with “RSN IE Beacon/Probe Response frame”.

Editor[A]

[Ed 292] Page 94, Line 9: Replace “Class 1 Frames” with “Class 1 frames”.

Editor[A] baseline text

[Ed 293] Page 94, Line 17: Replace “Class1 & 2 Frames” with “Class 1 & 2 frames”.

Editor[A] baseline text

[Ed 294] Page 94, Line 24: Replace “Class 1 & 2 Frames” with “Class 1 & 2 frames”.

Editor[A]

[Ed 295] Page 94, Line 26: Replace “Class1, 2 & 3 Frames” with “Class 1, 2 & 3 frames”.

Editor[A] baseline text

[Ed 296] Page 94, Line 35: Replace “Class1, 2 & 3 Frames” with “Class 1, 2 & 3 frames”.

Editor[A] baseline text

[Ed 297] Page 99, Line 51: Replace “Reassociation Request” with “Reassociation Request frame”.

Editor[A] baseline text

[Ed 298] Page 99, Line 54: Replace “Reassociation Request” with “Reassociation Request frame”.

Editor[A] baseline text

[Ed 299] Page 100, Line 23: Replace “Association Response” with “Association Response frame”.

Editor[A] baseline text

[Ed 300] Page 102, Line 28: Replace “FILSDiscovery frames” with “FILS Discovery frames”.

Editor[A]

[Ed 301] Page 105, Line 30: Replace “Association/Reassociation Request” with “(Re)Association Request frame”.

Editor[A]

[Ed 302] Page 106, Lines 5-6: Replace “(Re)Association Response” with “(Re)Association Response frame”.

Editor[A]

[Ed 303] Page 106, Line 62: Replace “(Re)Association Request” with “(Re)Association Request frame”.

Editor[A]

[Ed 304] Page 112, Line 47: Replace “Association frames” with “association frames”.

Editor[A]

[Ed 305] Page 113, Lines 8-9: Replace “(Re)Association Request” with “(Re)Association Request frame”.

Editor[J] baseline text

[Ed 306] Page 120, Line 35: Replace “(Re)Association Request and (Re)Association Response” with “(Re)Association Request and (Re)Association Response frames”.

Editor[A]

[Ed 307] Page 123, Line 16: Replace “FILS authentication frame” with “FILS Authentication frame”.

Editor[A]

[Ed 308] Page 123, Line 18: Replace “FILS authentication frame” with “FILS Authentication frame”.

Editor[A]

[Ed 309] Page 123, Line 24: Replace “FILS authentication frame” with “FILS Authentication frame”.

Editor[A]

[Ed 310] Page 128, Line 43: Replace “(Re)Association Request” with “(Re)Association Request frame”.

Editor[A]

[Ed 311] Page 128, Lines 43-44: Replace “(Re)Association Response” with “(Re)Association Response frame”.

Editor[A]

[Ed 312] Page 128, Line 44: Replace “Components of the (Re)Association Request and (Re)Association Response” with “Components of the (Re)Association Request and (Re)Association Response frames”.

Editor[A]

[Ed 313] Page 129, Line 31: Replace “Association Request” with “association request”.

Editor[M]: Replace “Association Request” with “Association Request frame”.

[Ed 314] Page 131, Line 26: Replace “(Re)Association Response” with “(re)association response”.

Editor[M]: Replace “(Re)Association Response” with “(Re)Association Response frame”.

[Ed 315] Page 132, Line 45: Replace “(Re)Association and EAPOL-Key frames” with “re(association) and EAPOL-Key frames”.

Editor[M]: Replace “(Re)Association and EAPOL-Key frames” with “(re)association and EAPOL-Key frames”.

[Ed 316] Page 134, Line 65: Replace “(Re)Association Request Frame” with “(Re)Association Request frame”.

Editor[A]

[Ed 317] Page 142, Line 49: Replace “Association/Reassociation Request” with “(Re)Association Request frame”.

Editor[M]: Replace “Association/Reassociation Request” with “(Re)Association Request frame”.

***Variable***

[Ed 318] Page 56, Line 28: Replace “Variable” with “variable”.

Editor[A]

[Ed 319] Page 57, Line 49: Replace “Variable” with “variable”. There are two appearances.

Editor[A]

[Ed 320] Page 59, Line 44: Replace “Variable” with “variable”.

Editor[A]

[Ed 321] Page 61, Line 31: Replace “Variable” with “variable”.

Editor[A]

[Ed 322] Page 67, Line 17: Replace “Variable” with “variable”.

Editor[A]

[Ed 323] Page 69, Line 62: Replace “Variable” with “variable”.

Editor[A]

[Ed 324] Page 72, Line 61: Replace “Variable” with “variable”.

Editor[A]

***Short SSID*** This issue is covered by CID 7083, both SSID and Short SSID will be used and will be updated in D4.3

[Ed 325] Page 14, Line 10: Replace “The SSID or the Short SSID” with “The SSID or the short SSID”.

Editor[M]: Covered by CID 7083, and will be updated in D4.3.

[Ed 326] Page 14, Line 13: Replace “the Short SSID” with “the short SSID”.

Editor[M]: Covered by CID 7083, and will be updated in D4.3.

[Ed 327] Page 48, Line 35: Replace “the Short SSID” with “the short SSID”.

Editor[J]

[Ed 328] Page 76, Line 32: Replace “the Short SSID” with “the short SSID”.

Editor[J]

[Ed 329] Page 76, Line 39: Replace “a Short SSID” with “a short SSID”.

Editor[J]

[Ed 330] Page 77, Line 5: Replace “the Short SSID” with “the short SSID”.

Editor[J]

[Ed 331] Page 77, Line 6: Replace “the 4-byte Short SSID” with “the 4-byte short SSID”.

Editor[J]

[Ed 332] Page 104, Lines 14-15: Replace “the received SSID or Short SSID” with “the received SSID or short SSID”.

Editor[J]

***Others***

[Ed 333] Page 3, Line 61: Replace “Probe Delay” with “probe delay”.

Editor[A]

[Ed 334] Page 14, Lines 35-36: Replace “Target Beacon Transmission Time” with “target beacon transmission time”.

Editor[A]

[Ed 335] Page 17, Lines 20-21: Replace “Minimum Association Response timeout” with “Minimum association response timeout”.

Editor[A]

[Ed 336] Page 18, Lines 18-19: Replace “Minimum Association Response timeout” with “Minimum association response timeout”.

Editor[A]

[Ed 337] Page 49, Line 3: Replace “minimum (Re)Association Response timeout” with “minimum (re)association response timeout”.

Editor[A]

[Ed 338] Page 49, Lines 23-24: Replace “minimum Association Response timeout” with “minimum association response timeout”.

Editor[A]

[Ed 339] Page 54, Lines 1-2: Replace “after the transmission of the Probe Request to receive the Probe Responses” with “after the transmission of the Probe Request frame to receive the probe responses”.

Editor[A]

[Ed 340] Page 65, Line 33: Replace “Association” with “association”.

Editor[A]

[Ed 341] Page 65, Line 40: Replace “Association” with “association”.

Editor[A]

[Ed 342] Page 82, Line 1: Replace “FILS Container Frame” with “FILS Container frame”.

Editor[A]

[Ed 343] Page 87, Line 64: Replace “Probe Request” with “probe request”.

Editor[A]

[Ed 344] Page 88, Line 21: Replace “Probe Request” with “probe request”.

Editor[A]

[Ed 345] Page 90, Line 1: Replace “Probe Request” with “Probe Request frame”.

Editor[A]

[Ed 346] Page 91, Line 53: Replace “Probe Response” with “Probe Response frame”.

Editor[A]

[Ed 347] Page 92, Lines 32-33: Replace “Probe Request” with “probe request”.

Editor[A]

[Ed 348] Page 94, Line 11: Replace “Successful (Re)Association – No RSNA Required” with “Successful (re)association – no RSNA required”.

Editor[J] baseline figure

[Ed 349] Page 94, Line 19: Replace “Unsuccessful (Re)Association” with “Unsuccessful (re)association”.

Editor[J] baseline figure

[Ed 350] Page 94, Lines 19-20: Replace “Successful (Re)Association – RSNA Required” with “Successful (re)association – RSNA required”.

Editor[J] baseline figure

[Ed 351] Page 94, Lines 28-29: Replace “FILS (Re)Association and Key Confirmed” with “FILS (re)association and key confirmed”.

Editor[A]

[Ed 352] Page 94, Line 29: Replace “Unsuccessful (Re)Association” with “Unsuccessful (re)association”.

Editor[J] baseline figure

[Ed 353] Page 99, Line 16: Replace “AssociationTimeoutInfo” with “AssociationResponseTimeoutInfo parameter”.

Editor[M] Covered by CID 7284, Replace "AssociationTimeoutInfo" with "AssociationDelayInfo", will be updated in D4.3.

[Ed 354] Page 99, Line 17: Replace “AssociationTimeoutInfo” with “AssociationResponseTimeoutInfo parameter”.

Editor[M] Covered by CID 7284, Replace "AssociationTimeoutInfo" with "AssociationDelayInfo", will be updated in D4.3.

[Ed 355] Page 99, Line 18: Replace “AssociationTimeoutInfo” with “Association response timeout info”.

Editor[M] Covered by CID 7284, Replace "Association Timeout Info element" with "Association Delay Info element", will be updated in D4.3.

[Ed 356] Page 102, Line 61: Replace “Authentication Transaction sequence number” with “authentication transaction sequence number”.

Editor[A]

[Ed 357] Page 103, Line 29: Replace “AFILS AP supporting FILS Discovery” with “A FILS AP supporting FILS discovery”.

Editor[A]

[Ed 358] Page 107, Line 33: Replace “FILS Container Action frame” with “FILS Container frame”.

Editor[A]

[Ed 359] Page 120, Lines 59-60: Replace “part of Beacons, Probe Responses, and FILS Discovery frames” with “part of Beacon, Probe Response, and FILS Discovery frames”.

Editor[A]

[Ed 360] Page 121, Line 2: Replace “part of Beacons, Probe Responses, and FILS Discovery frames” with “part of Beacon, Probe Response, and FILS Discovery frames”.

Editor[A]

[Ed 361] Page 141, Line 40: Replace “FILS Discovery” with “FILS Discovery frame”.

Editor[A]

**Clause 2.9: Use of verbs & problematic words**

***Font Sizes & Styles***

[Ed 362] Page 19, Lines 17-28: Please fix the font size for the first two columns.

Editor[A]

[Ed 363] Page 20, Lines 19-22: Please fix the font size for the first two columns.

Editor[A]

[Ed 364] Page 20, Lines 33-35: Please fix the font size for the first two columns.

Editor[A]

[Ed 365] Page 32, Lines 49-54: Please fix the font size.

Editor[A]

[Ed 366] Page 33, Lines 25-27: Please fix the font size.

Editor[A]

[Ed 367] Page 34, Lines 24-29: Please fix the font size.

Editor[A]

[Ed 368] Page 35, Lines 23-28: Please fix the font size.

Editor[A]

[Ed 369] Page 36, Lines 34-37: Please fix the font size.

Editor[A]

[Ed 370] Page 59, Lines 50-51: Please fix the font size and style. They are inconsistent with the draft specification.

Editor[A]

[Ed 371] Page 64, Lines 1-6: Please fix the font size and style. They are inconsistent with the draft specification.

Editor[A]

[Ed 372] Page 68, Line 25: Please fix the font size and style. They are inconsistent with the draft specification.

Editor[A]

[Ed 373] Page 72, Lines 5-10: Please fix the font size and style of the element format. They are inconsistent with the draft specification.

Editor[A]

[Ed 374] Page 72, Lines 21-24: Please fix the font size and style of the element format. They are inconsistent with the draft specification.

Editor[A]

[Ed 375] Page 75, Lines 41-58: Please fix the font size and style of the field format. They are inconsistent with the draft specification.

Editor[A]

[Ed 376] Page 76, Lines 6-22: Please fix the font size and style of the subfield format. They are inconsistent with the draft specification.

Editor[A]

[Ed 377] Page 78, Lines 26-29: Please fix the font size.

Editor[A]

[Ed 378] Page 82, Lines 8-13: Please fix the font size and style of the field format. They are inconsistent with the draft specification.

Editor[A]

***which / that***

[Ed 379] Page 49, Line 41: Replace “that” with “which”.

Editor[A]

[Ed 380] Page 70, Line 42: Replace “which” with “that”.

Editor[A]

[Ed 381] Page 89, Line 38: Replace “which” with “that”.

Editor[A] duplicated comment

[Ed 382] Page 92, Line 3: Replace “which” with “that”.

Editor[M] duplicated comment, replace “which consists of” with “consisting of”

[Ed 383] Page 92, Line 44: Replace “which” with “that”.

Editor[A] duplicated comment

[Ed 384] Page 109, Line 46: Replace “which” with “that”.

Editor[M] duplicated comment, replace “frame which includes” with “frame including”

[Ed 385] Page 120, Line 37: Replace “which” with “, which”.

Editor[A] duplicated comment

[Ed 386] Page 121, Line 19: Replace “which” with “, which”.

Editor[M] duplicated comment, replace “which uses” with “that uses”

[Ed 387] Page 124, Line 11: Replace “which” with “, which”.

Editor[M] duplicated comment, replace “which encapsulates” with “that encapsulates the”

***Missing & use of articles (indexicals)***

[Ed 388] Page 32, Line 9: Replace “CAG Number element” with “The CAG Number element”.

Editor[A]

[Ed 389] Page 32, Line 12: Replace “FILS Indication element” with “The FILS Indication element”.

Editor[A]

[Ed 390] Page 32, Line 15: Replace “AP-CSN element” with “The AP-CSN element”.

Editor[A]

[Ed 391] Page 32, Line 17: Replace “Differentiated Initial Link Setup element” with “The Differentiated Initial Link Setup element”.

Editor[A]

[Ed 392] Page 36, Line 50: Replace “CAG Number element” with “The CAG Number element”.

Editor[A]

[Ed 393] Page 75, Line 19: Replace “Reduced Neighbor Report element” with “The Reduced Neighbor Report element”.

Editor[A]

[Ed 394] Page 103, Line 37: Replace “an FILS Discovery frame” with “a FILS Discovery frame”. There are two appearances.

Editor[A]

[Ed 395] Page 103, Line 48: Replace “an FILS Discovery frame” with “a FILS Discovery frame”.

Editor[A]

[Ed 396] Page 104, Line 9: Replace “an FILS Discovery frame” with “a FILS Discovery frame”.

Editor[A]

[Ed 397] Page 104, Line 14: Replace “an FILS Discovery frame” with “a FILS Discovery frame”.

Editor[A]

[Ed 398] Page 109, Line 43: Replace “an FILSC” with “a FILSC”.

Editor[A]

***Shall***

[Ed 399] Page 91, Line 62: “shall” is a normative verb that shall not appear in NOTE.

Editor[M] duplicated comment, replace “shall not” with “is not”

***Others***

[Ed 401] Page 38, Line 27: Delete “.”

Editor[A]

[Ed 402] Page 38, Line 35: Delete “.”

Editor[A]

[Ed 403] Page 39, Line 37: Delete “[13/1514r1]”.

Editor[A]

[Ed 404] Page 46, Lines 43-44: Please make sure “Octets” and “:” are in the same line.

Editor[A]

[Ed 405] Page 46, Line 52: Replace “subfield). T” with “subfield).”

Editor[A]

[Ed 406] Page 64, Line 20: Replace “The IP Address Response Control field’s (8 bits” subfields are interpreted” with “Subfields of the IP Address Response Control field are interpreted”.

Editor[A]

[Ed 407] Page 66, Line 2: Replace “the DNS Info Control subfield settings are shown in” with “the DNS Info Control subfield settings are shown in Table 8-258i”.

Editor[A]

[Ed 408] Page 66, Lines 39-40: Replace “otherwise..” with “otherwise.”

Editor[A]

[Ed 409] Page 68, Line 47: Replace “B0, B1and B2” with “B0, B1 and B2”.

Editor[A]

[Ed 410] Page 72, Lines 61-62: Please make sure “Octets” and “:” are in the same line.

Editor[A]

[Ed 411] Page 73, Line 1: Delete “s” at the end of the sentence.

Editor[A]

[Ed 412] Page 73, Line 42: Delete “s” at the end of the sentence.

Editor[A]

[Ed 413] Page 74, Line 15: Delete “s” at the end of the sentence.

Editor[A]

[Ed 414] Page 79, Line 34: There is an extra space between “the minimum”. Please delete it.

Editor[A]

[Ed 415] Page 80, Line 42: Table 8-138 is not related to cipher suite selectors. Please find the appropriate table for reference.

Editor[M] replace “Table 8-138” with “Table 8-128”

[Ed 416] Page 80, Lines 52-53: Table 8-138 is not related to cipher suite selectors. Please find the appropriate table for reference.

Editor[M] replace “Table 8-138” with “Table 8-128”

[Ed 417] Page 81, Lines 14-21: Table 8-140 is not related to AKM suite selectors. Please find the appropriate table for reference.

Editor[J]: The reference is right.

[Ed 418] Page 85, Line 19: There is an extra space between “or DMG”. Please delete it.

Editor[J]: baseline text.

[Ed 419] Page 90, Line 22: Replace “a Probe Request frames” with “a Probe Request frame”.

Editor[A]

[Ed 420] Page 91, Line 42: Where is “Note 1” for “(See Note 1)”?

Editor[M]: Add number to the note on page 91

[Ed 421] Page 91, Line 47: Where is “Note 2” for “(See Note 2)”?

Editor[M]: Add number to the note on page 91

[Ed 422] Page 99, Line 17: The reference to “AssociationTimeoutInfo”, namely, clause 6.3.5.2.2, is not correct. Please find the appropriate reference.

Editor[M]: AssociationTimeoutInfo is defined in 8.4.2.171 Association Delay Info element.

[Ed 423] Page 109, Line 40: There is an extra space between “FILSC Type”. Please delete it.

Editor[A]

[Ed 424] Page 109, Line 65: Replace “5LSBs” with “5 LSBs”.

Editor[A]

[Ed 425] Page 120, Line 43: Replace “EAP-RP as defined in IETF RFC 5295 IETF RFC 6696 shall be used” with “EAP-RP as defined in IETF RFC 5295 and IETF RFC 6696 shall be used”

Editor[A]

***The following are the findings from Ping Fang. These cover 2.9-2-14.***

**TGai MDR Review**

**Ping Fang**

**2.7 Capitalization**

Capitalization: frame

Page.Line 31.15, "robust Management frames" -> "Robust Management frame"

Editor[M]: replace "robust Management frames" with "robust management frame"

Page.Line 123.25, "FILS authentication frame" -> "FILS Authentication frame"

Editor[J]: this is not a specific frame name.

Capitalization: element

Page.Line 39.51, "Element"->"element"

Editor[A]

Page(ix) 8.4.2.186, "PMKID list element"-> "PMKID List element"

Editor[A]

Page(xv) Figure 8-575ad, "PMKID list element" -> "PMKID List element"

Editor[A]

Page.line:16.29,17.14,18.13,44.44,70.53,70.57,70.65,122.65,123.27,123.29,123.34, "PMKID list element" -> "PMKID List element"

Editor[A]

Capitalization: field

Page.Line 47.38, "TBTT information field" -> "TBTT Information field"

Editor[A]

Page.Line 55.64，70.7 ,70.19, "length field" -> "Length field"

Editor[A]

Page.Line 72.32, 72.35, "AP identifier subfields" -> "AP Identifier subfields"

Editor[A]

Page.Line 80.35, 80.39, "RSN information subfield" -> "RSN Information subfield"

Editor[A]

Page(vii) 8.4.1.9 , "Status code field" -> "Status Code field"

Editor[A]

Page(xiii)Table 8-53, "Status code >Status Code"

Editor[J]: this table name is OK

Page.line:40.37,98.64, "Status code field->Status Code field"

Editor[A]

Page.Line 103.12, "Authentication algorithm number field" -> "Authentication Algorithm Number field"

Editor[A]: duplicated comment

Page.Line 47.38, "TBTT information field"

Editor[M]: replace "TBTT information field" with "TBTT Information field"

Page.line:107.10,107.40, "IP address fields" -> "IP Address fields"

Editor[M]: Replace “the IP address along with other IP address fields” with “the IP Address Data field” on 107.10, and replace “the IP address, along with other IP address fields” with “the IP Address Data field” on 107.40

Page.Line 108.9, "hashed domain name field" -> "Hashed Domain Name field"

Editor[A]

Page.Line:123.1,123.41, "Wrapped data field" - > "Wrapped Data field"

Editor[A]

Page.line:95.57,96.53, "Block Ack" -> "block ack"

Editor[A]

Page.line: 91.53, "Beacon" -> "beacon"

Editor[M]: Replace “Beacon or Probe Response” with “Beacon or Probe Response frame”

Page.line: 9.L53, "Probe Response" -> "probe response"

Editor[M]: Replace “Beacon or Probe Response” with “Beacon or Probe Response frame” on 91.53.

Page.line: 100.23, "Association Response" -> "association response"

Editor[M]: Replace “Association Response” with “Association Response frame”, but this is the baseline text.

Page.Line: 65.33,65.40, "Association" -> "association"

Editor[A]: duplicated comment.

Page.Line: 100.23, "Association Response" -> "association response"

Editor[M]: duplicated comment, Replace “Association Response” with “Association Response frame”, but this is the baseline text.

**2.8 Terminology: frame vs packet vs PPDU vs MPDU**

no problem

**2.9 Use of verbs & problematic words**

NOTES

Page.Line 91.51, 91.56, Normative verbs should not appear in informative text. Please replace "should" with "can".

Editor[M] 91.51, remove “should”; 91.56 replace “should be” with “is”

Use of "can"

Page.Line 105.31, 108.9, 113.1, 113.3, 113.4, 113.14, 113.26, Replace "can" with "may" when expressing a possibility.

Editor[M]105.31, replace “can” with “might” .The use of “can” should be considered carefully. It should be interpreted as meaning “is allowed to” or “is able to”, when interpreted in the context of normative statements made elsewhere in the standard, or referenced from the standard, or that are generally well known or self-obvious. When those conditions do not exist, use the word “might” as this expresses the possibility of something happening without use understanding how it can happen.

Editor[J]108.9

Editor[J] 113.1, 113.3, 113.4, 113.14, from baseline text

Editor[J]113.26.

Use of "may"

Page.Line 21.40, 24.13, 26.28, 65.59, 66.44, 67.54, Normative verbs should not appear in informative text. Please reword “may” with "can".

Editor[M]21.40, replace “may be” with “is”.

Editor[M]24.13, replace “may be” with “is”.

Editor[M]26.28, replace “may be” with “is”.

Editor[A]65.59, replace “may” with “can”

Editor[A]66.44, replace “may” with “can”

Editor[A] 66.54, replace “may” with “can”

Editor[A] 73.14, replace “may” with “can”

Use of "will"

(no problem)

Use of "must"

(no problem)

Use of "may not"

(no problem)

Use of "only"

(no problem)

Use of "which" vs. "that". As referred to the style guide, "which" should be preceded by a preposition, in which case it is joined to the previous phrase, or a comma, in which case it starts an incidental phrase.

Page.Line 70.42, 92.1, 92.44, 109.46, 120.37, 137.19, 124.10, Replace "which" with ", which".

Editor:

Page.Line 70.42, duplicated comment, Replace “which” with “that”.

Page.Line 92.1, duplicated comment, replace “which consists of” with “consisting of”

Page.Line 92.44, duplicated comment, Replace “which” with “that”.

Page.Line 109.46, duplicated comment, replace “frame which includes” with “frame including”

Page.Line 120.37, duplicated comment, Replace “which” with “that”.

Page.Line 124.10, duplicated comment, Replace “which” with “that”.

Missing / use of articles

Page.Line 25.13, "or 2) an a priori knowledge" -> "or 2) a priori knowledge".

Editor[A]

Question: Page.Line 6.54, "an SS" should be "a SS"? in Draft P802.11REVmc\_D3.0.pdf, there are both "an SSPN" and "a SSPN"

Editor[M]: replace “an SS” with “a SS”

Missing/Unnecessary noun in noun phrases

(no problem)

**2.10 Numbers**

Page.Line 63. 47, missing bit label B0...B7, B0...B7 are referenced in the table followed

Eidtor[J]

Page.Line 113.27, remove "605, 6196"

Editor[A]:

Page.Line 129.55, "zeros"-> "0s"

Editor[A]:

Questions about Numbers:

Page.Line 58.24, 58.32, 58.44 "zero (0)" is used, and this is also found in Revmc D4.0, not sure this is the right style.

Editor[A]: Replace “ zero (0)” with “0”.

Page.Line 58.26, 58.34, "serven (7)" is used

Editor[M]: Replace "serven (7)" with “serven”.

Page.Line 58.43, "one (1)" is used

Editor[M] change “one(1)” to “1”

* + 1. Don’t need (“one (1)”) ever.
    2. Use words to describe small values “two apples”
    3. Use numbers to describe contets of fields “is set/equal to 2”.

Page.Line 125.44, "one (1)" is used

Editor[M] change “one(1)” to “1”

Page.Line 126.19, "two (2)" is used

Editor[M] change “two (2)” to “2”

Page.Line 132.56, "one (1)" is used

Editor[M] change “one(1)” to “1”

**2.11 Maths operators and relations**

Page.Line 84.24, "Lmod 255"-> "L mod 255"

Editor[A]: duplicated comment

Page.Line 108.20, "CRC32(x)"-> "CRC32-(x)"

Editor[A]

**2.12 Hyphenation**

Page.Line 94.42, "non-mesh"-> "nonmesh"

Editor[A]: duplicated comment

Page.Line 99.59, "anon-FILS"-> "a non-FILS"

Editor[A]

**2.13 References to SAP primitives**

Page.Line 13.20, "MLME-SCAN.request"-> "MLME-SCAN.request primitive"

Editor[A]

Page.Line 85.44, "MLME-SCAN.request"-> "MLME-SCAN.request primitive"

Editor[A]

Page.Line 85.47, "MLME-SCAN.request"-> "MLME-SCAN.request primitive"

Editor[A]

**2.14 References to the contents of a field/subfield**

Page.Line 46.13, "Otherwise the value of the FILS Capability field is 0." -> "Otherwise the FILS Capability field is set to 0."

Editor[A]: duplicated comment.

Page.Line 47.23, "The value of TBTT Information Length field is either 1, 5, 7, or 11 based on the fields in TBTT Offset subfield." -> "The TBTT Information Length field is either 1, 5, 7, or 11 based on the fields in TBTT Offset subfield."

Editor[A]: duplicated comment.

Page.Line 47.31, "When the value of TBTT Information Length is 1" -> "When the TBTT Information Length is 1"

Editor[A]:

Page.Line 47.60, "When the value of TBTT Information Length is greater than or equal to 1," -> "When the TBTT Information Length is greater than or equal to 1,"

Editor[A]:

Page.Line 62.61, "The value of the DNS Server Address Request subfield is 1" -> "The DNS Server Address Request subfield is set to 1"

Editor[A]:

Page.Line 76.29, "The value of this subfield is equal to the length" -> "This subfield is equal to the length"

Editor[A]:

Page.Line 76.32, "the value of the SSID Length subfield is equal to 3" -> "the SSID Length subfield is equal to 3"

Editor[A]:

Page.Line 77.5, "When the value of the Short SSID Indicator subfield is equal to 1" -> "When the Short SSID Indicator subfield is equal to 1"

Editor[A]:

Page.Line 85.43,85.45 "when the value of the ReportingOption parameter in the" -> "when the ReportingOption parameter in the"

Editor[A]:

Page.Line 88.41, "the value of the Max Channel Time field shall be set to" -> "the Max Channel Time field shall be set to "

Editor[A]:

2.15 References to MIB variables/attributes

No problem

# Individual clauses

## Definitions (Clause 3):

***Make the changes indicated below***

P3L17: EAP needs to be spelled out

Editor[A]: duplicated comment, replace “EAP re-authentication protocol (EAP-RP)” with “Extensible Authentication Protocol re-authentication protocol (EAP-RP)”.

P3L41: Spell out "STA", "FILS", and "AP". The Style Guide says " should be spelled out in full on their first use **in each definition**" so even though these may have been spelled out previously, this needs to be done in each definition in which they appear.

Editor[A]:replace “STA” with “station (STA)”, replace “FILS” with “fast initial link setup (FILS)”, replace “AP” with “access point (AP)”

P3L56: Spell out "FILS".

Editor[A]: duplicated comment, replace “FILS association” with “fast initial link setup (FILS) association”.

P3L61: Spell out "FILS" and "STA".

Editor[A]: replace “STA” with “station (STA)”, replace “FILS” with “fast initial link setup (FILS)”,

P4L1: Spell out "ESS" and on L42 "IP" and "AP".Editor[A]: replace “ESS” with “extended service set (ESS)”, replace “AP” with “access point (AP)”, replace “IP” with “Internet Protocol (IP)”

P4L5: Spell out "ID".

Editor[A]: replace “ID” with “identifier (ID)”

P4:20: The Style Guide does not identify a difference between the need to spell out abbreviations in Clauses 3.1, 3.2, and 3.3 versus Clause 3.4 (Abbreviations and acronyms). After checking Clause 3.4 in REVmc, it would appear that this requirement does not apply to this subclause, thus the abbreviations used in the definitions in Clause 3.4 are considered to be OK.

# 3.2 General Description (Clause 4)

No issues found in Clause 4 (regarding declarative versus normative language).

# 3.3 Frame Formats (Clause 8)

Note, the WG11 style guide is ambiguous on whether to use “set to” or “equal to” when describing a conditionaly of structure based on a value that has just been inserted.

Recommend that we use “set to” for this context – i.e., all actions specifying the contents of a frame, and “equal to” for all conditions resulting from the receipt of a frame.

*Review the following findings in the light of this guidance:*

P58L24: "When it is set to zero (0) the Public Key Identifier .." at first glance appears to be against the Style Guide because of the "is set to" but this may be OK because it is not specifying who sets it when (behaviour), and is only defining the meaning of this field when it has been so set. The same situation in L32 and L43

Editor[M]: duplicated comment, Page 58, Line 24,Replace “When it is set to zero (0)” with “When the Number of Public Key Identifiers subfield is 0, ”

Editor[M]: duplicated comment, Page 58, Line 32,Replace “When it is set to zero (0)” with “When the Number of Domain Identifiers subfield is 0, ”

Editor[M]: duplicated comment, Page 58, Line 43,Replace “When the Cache Supported bit is set to one (1)” with “When the Cache Supported subfield is 0, ”

P58L50: "An AP sets" described behavior and needs to be deleted.

P58L24, P58L32, P58L432, P58L43, P58L44, P58L50, P59L7, P59L8, P60L27, P62L38, P62L64, P68L9, P68L41, P68L42, P68L43, P78L44, P78L45, P80L5, P80L9, P82L18, P82L21: Multiple places where a field/bit value is described using the expression "is set" which should be changed to alternative wording such as "value is" instead of "is set to".

Tables 8-258g, 8-258h, and 8-258i: Explanation text uses "An AP sets this bit to", replace with "This bit is"

Editor[M]: duplicated comment, Page 58, Line 24,Replace “When it is set to zero (0)” with “When the Number of Public Key Identifiers subfield is 0, ”

Editor[M]: duplicated comment,Page 58, Line 32,Replace “When it is set to zero (0)” with “When the Number of Domain Identifiers subfield is 0, ”

Editor[M]: duplicated comment,Page 58, Line 43,Replace “When the Cache Supported bit is set to one (1)” with “When the Cache Supported subfield is 0, ”

Editor[M]: duplicated comment,Page 58, Line 44,Replace “When the Cache Supported bit is set to zero (0)” with “When the Cache Supported subfield is 0, ”

Editor[J]:P58L50, P59L7, P59L8, P60L27, P62L38, P62L64, P68L9, P68L41, P68L42, P68L43,P78L44, P78l45, P80L5,P80L9,P82L18,P82L21.

# 3.4 SAP Interfaces (Clause 6)

## 3.4.1 Presence statements

***Address the following issues***

P13L36: This description does not follow the template given in 3.4.1 of the guide. A possible rewording would be: "Contains the values of CAG Version, Scope, and Partial Advertisement Protocol ID from the CAG Number element. It is optionally present in the Probe Response or Beacon frame; otherwise not present." (note the deletion of "else null")

Editor[A]:

P13L46: This description does not follow the template given in 3.4.1 of the guide. A possible rewording would be: "Contains the values from the Differentiated Initial Link Setup element. It is optionally present when dot11FILSActivated is true and if such an element was present in the Probe Response or Beacon frame; otherwise not present." (note the deletion of "else null")

Editor[A]:

P14L23: ".. is present if any of the following optional parameters ..." but there is no list of parameters. needs to identify the parameters for which it will be present and then add the "otherwise not present".

Editor[M]: resolved in <https://mentor.ieee.org/802.11/dcn/15/11-15-0666-00-00ai-comment-resolution-for-a-mdr-comment.docx>. Change text “The parameter indicates which optional parameters are present in BSSDescriptionFromFD. The parameter is present if any of the following optional parameters are present in the BSSDescriptionFromFD.” to “The advertised capabilities and operational indications of the found BSS. This parameter is optional.”

P14L29, P14L33, P14L40, P14L52, P14L63: Add "Otherwise not present."

Editor[J]: there is no specific conditions stated, so simply adding the words is not right.

## 3.4.2 Consistency Requirements

No problems found

## 3.4.3 Primitive Patterns

No problems found

# 3.4.4 Locally generated Status Codes

No problems found

# 3.5 Annexes

No problems found

# 3.6 Annex A- Bibliography

N/A

# 3.7 Annex B - PICS

No problems found

# 3.8 Annex C - MIB

No problems found

# 3.8.1 Naming of MIB Variables

No problems found

# 3.8.2 Description of MIB Variables

The following variables do not follow the style with respect to what goes on each line of the description: dot11FILSActivated, dot11FILSFDFrameBeaconMinimumInterval, dot11FILSOmitReplicateProbeResponses, dot11FILSProbeDelay, dot11DILSImplemented, dot11HLPWaitTime

Editor[M]: Remove dot11DILSImplemented from the draft. And start a new line after each after each period in the "DESCRIPTION" of the specified variables.

***Update the description of these variables to match WG11 style***

# 3.8.3 Compliance requirements

No problems found

# 3.8.4 Lexical requirements

Believe that the MIB will now compile, additional tests are in progress.

# ANA

***TGai editor, please perform actions shown below in “actions arising”***

| **Resources by Doc1Subclause for MDR** | | |
| --- | --- | --- |
| **RefDoc1Subclause** | **ResourceName** | **Status** |
| 8.2.4.1.2 | ProtocolVersions | NP |
| 8.2.4.1.3 | FrameTypes | NP |
| 8.2.4.1.3 | DataSubTypes | NP |
| 8.2.4.1.3 | ExtendedSubTypes | NP |
| 8.2.4.1.3 | ExtendedControlSubTypes | NP |
| 8.2.4.1.3 | ControlSubTypes | NP |
| 8.2.4.1.3 | ManagementSubTypes | NP |
| 8.2.6 | TLV encodings | NP |
| 8.4.1.1 | AuthenticationAlgorithmNumbers | OK |
| 8.4.1.11 | Categories | OK |
| 8.4.1.4 | Capabilities | NP |
| 8.4.1.7 | ReasonCodes | NP |
| 8.4.1.9 | StatusCodes | OK |
| 8.4.2.1 | ElementIDs | See Action 1 |
| 8.4.2.1 | Element ID Extension 1 | See Action 1 |
| 8.4.2.100.2 | Active Path Selection Protocol | NP |
| 8.4.2.27.2 | CipherSuiteSelectors | NP |
| 8.4.2.27.3 | AKMSuiteSelectors | OK |
| 8.4.2.27.4 | RSNCapabilities | NP |
| 8.4.2.29 | ExtendedCapabilities | See Action 2 |
| 8.4.2.50 | FastBSSTransitionSubElementIDs | NP |
| 8.4.4 | Info IDs | See Action 3 |
| 8.5.14.28 | WNM-Notification types | NP |
| 8.5.2.1 | SpectrumManagementActionFrames | NP |
| 8.5.8.1 | PublicActionFrames | OK |
| 8.8.3 | ShortFrameTypes | NP |
| 8.8.4 | ShortControlFrameSubTypes | NP |
| 8.8.5 | ShortManagementFrameSubTypes | NP |
| annex C | dot11mac | NP |
| C.3 | dot11Groups | See Action 4 |
| C.3 | dot11OperationEntry | NP |
| C.3 | dot11phy | NP |
| C.3 | dot11smt | OK |
| C.3 | dot11StationConfigEntry | OK |
| C.3 | ieee802dot11 | NP |
| C.3 | dot11Compliances | See Action 5 |
| D.1 | BehaviorLimits | NP |
| E.1 | OperatingClassesInJapan | NP |
| E.1 | OperatingClassesInEurope | NP |
| E.1 | OperatingClassesGlobal | NP |
| E.1 | OperatingClassesInUSA | NP |
| None | MAC addresses | NP |
| Notes:  NP – Not present  OK – Present and values are correct | | |

Actions arising:

* 1. The element ID (Table 8-85) are not sorted. Please sort by Element ID and then Element ID Extension fields. The values are correct. Editor[A]
  2. Request a value for FILS Capability; or alternatively replace advertisement of FILS with a more time-efficient encoding. (This should be debated in the TG, and please be aware that other discussions may be taking place on how to reduce Beacon size that might possibly be re-usable here). Editor[A]: Group decided that a ANA number be requested.
  3. The Info ID namespace has recently been taken into ANA administration. The values 273-276 are available. Please generate a request to the ANA for these ANQP-elements, and update this table accordingly. Until a response has been provided by the ANA, please show the Info IDs in this table as <ANA> flags. Editor[A]
  4. Please request a value for the dot11FILSComplianceGroup. Editor[A]
  5. Please request a value for dot11FILSCompliance Editor[A]

# MIB



***Make the following changes to the TGai MIB***

Editor[M]: Accept all the other changes except that “ dot11F~~D~~ILSImplemented TruthValue,”.

|  |
| --- |
| dot11FILSComplianceGroup OBJECT-GROUP  OBJECTS {  dot11FILSActivated,  dot11FILSFDFrameBeaconMinimumInterval,  dot11FILSBeaconResponseWindow,  dot11FILSOmitReplicateProbeResponses,  dot11DILSActivated,  dot11FILSProbeDelay,  dot11HLPWaitTime  }  STATUS current  DESCRIPTION  "~~“~~The FILS Compliance group defines those objects that provide fast initial link setup for IEEE Std 802.11."~~”~~  ::= { dot11Groups 91~~<ANA>~~ }  dot11FILSActivated 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 for the next MLME-START.request primitive or MLME-JOIN.request primitive. This attribute, when true, indicates that FILS is enabled."~~”~~  DEFVAL {false}  ::= { dot11StationConfigEntry 160 }  -- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  -- \* dot11FILSConfigTable TABLE  -- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  dot11FILSConfigTable OBJECT-TYPE  SYNTAX SEQUENCE OF Dot11FILSConfigEntry  MAX-ACCESS not-accessible  STATUS current  DESCRIPTION  "~~“~~The table containing fast initial link setup configuration objects."~~”~~  ::= { dot11smt 35 }  dot11FILSConfigEntry OBJECT-TYPE  SYNTAX Dot11FILSConfigEntry  MAX-ACCESS not-accessible  STATUS current  DESCRIPTION  "~~“~~An entry in the dot11FILSConfigTable."~~”~~  INDEX { ifIndex }  ::= { dot11FILSConfigTable 1 }  Dot11FILSConfigEntry ::=  SEQUENCE {  dot11FILSFDFrameBeaconMinimumInterval Unsigned32,  dot11FILSBeaconResponseWindow Unsigned32,  dot11FILSOmitReplicateProbeResponses TruthValue,  dot11F~~D~~ILSImplemented TruthValue,  dot11FILSProbeDelay Unsigned32,  dot11HLPWaitTime Unsigned32  }  dot11FILSFDFrameBeaconMinimumInterval OBJECT-TYPE  SYNTAX Unsigned32(0..10000)  UNITS "~~“~~TUs"~~”~~  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 indicates the duration in units of TUs. The STA is allowed to transmit a FILS Discovery if a duration defined by this value has elapsed sine the previous Beacon or FILS Discovery frame transmission and the next TBTT is later than a duration defined by this value."~~”~~  DEFVAL {20}  ::= { dot11FILSConfigEntry 1 }  dot11FILSBeaconResponseWindow OBJECT-TYPE  SYNTAX Unsigned32(0..1000000)  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 indicates the duration in units of 0.1 milliseconds. If the duration from the reception of the Probe Request frame to the TBTT is less than the value, the STA does not transmit a Probe Response frame as response to the Probe Request frame."~~”~~  DEFVAL {50}  ::= { dot11FILSConfigEntry 2 }  dot11FILSOmitReplicateProbeResponses 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 for the next Probe Response frame.  This attribute, when true, indicates that the station may respond to one or more received Probe Request frames with a single Probe Response frame addressed to the broadcast address or alternatively, by not transmitting a Probe Response frame and instead letting the next Beacon frame be the response to the Probe Request frame(s)."~~”~~  DEFVAL { false }  ::= { dot11FILSConfigEntry 3 }  dot11DILSImplemented 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 station implementation is capable of supporting fast initial link setup category. The capability is disabled, otherwise."~~”~~  DEFVAL{false}  ::= { dot11FILSConfigEntry 4 }  dot11FILSProbeDelay OBJECT-TYPE  SYNTAX Unsigned32(0..100000)  UNITS "~~“~~microseconds"~~”~~  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 indicates the duration in units of microseconds. If a FILS STA receives a suitable Probe Request, Probe Response, Beacon, FILS Discovery or Measurement Pilot frame within this duration of the start of active scanning on a given channel, it does not transmit a Probe Request frame."~~”~~  DEFVAL {5000}  ::= { dot11FILSConfigEntry 5 }  dot11HLPWaitTime OBJECT-TYPE  SYNTAX Unsigned32  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 indicates the duration in units of TU. This value specifies a time that the AP STA with dot11FILSActivated equal to true waits incoming HLP packets from receiving Association/Reassociation Request."~~”~~  DEFVAL {30}  ::= { dot11FILSConfigEntry 6 }  -- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  -- \* End of dot11FILSConfigTable TABLE  -- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  -- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  -- \* Compliance Statements - FILS  -- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  dot11FILSCompliance MODULE-COMPLIANCE  STATUS current  DESCRIPTION  "~~“~~The compliance statement for SNMPv2 entities that implement the IEEE 802.11 MIB for FILS operation."~~”~~  MODULE -- this module  MANDATORY-GROUPS { dot11FILSComplianceGroup }  -- OPTIONAL-GROUPS { }  ::= { dot11Compliances 17~~<ANA>~~ } |

# IEEE-SA MEC

## The MEC comments

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| --- |
| **From:** Michelle Turner  **Sent:** Wednesday, February 11, 2015 10:42 PM **To:** Stephens, Adrian P; Kathryn Bennett **Subject:** MEC for P802.11ai  Hi Adrian,  The MEC has been completed on P802.11ai.  Please update the copyright date to 2015 on the footers of each page  Annex B is missing (normative) and proforma from the title.  These are certainly not show stoppers, so the draft "Meets all editorial requirements" therefore it can proceed to ballot. I just wanted to point out the 2 minor things I found.  Thanks!    --  Michelle Turner Managing Editor, Technical Community Content Publishing  IEEE Standards Association |

## The response to the MEC comments

***Update copyright date on footers.***

***Update Annex B Heading to show “(normative)” and correct wording to match REVmc Annex B.***