IEEE P802.11  
Wireless LANs

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| LB 203 Clause 4 comment resolution | | | | |
| Date: 2014-08-12 | | | | |
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Abstract

This submission proposes comment resolutions of MAC comments from TGah Draft 2.0.

* CIDs: 4038, 4037, 4036, 3431, 3080, 3440, 3082, 3209, 3210, 3432, 3433, 3435, 3437, 4159, 3536, 3638, 4009, 3446, 3448, 3445, 4113, 3391 (22 CIDs)

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGah Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGah Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGah Editor: Editing instructions preceded by “TGah Editor” are instructions to the TGah editor to modify existing material in the TGah draft. As a result of adopting the changes, the TGah editor will execute the instructions rather than copy them to the TGah Draft.***

| **CID** | **Commenter** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 4038 | Ronald Murias | 4.00 | 4.13 | I object to the resolution of CID 1015. 14/337r3 has no resolution for CID 1013. It changes one paragraph in 4.13 but does not address the concerns raised (117 instances of can to be reviewed). | See comment. | Rejected-  This is an invalid comment.  For a comment to be valid:  It needs to identify where the issue is in the draft  It needs to identify what the issue is  It needs to identify a proposed change in sufficient detail that the CRC can readily identify changes that they would reasonably expect to satisfy the commenter. The wording from the IEEE-SA Standards Board Operations Manual (2010 p24) is: “This vote must be accompanied by one or more specific objections with proposed resolution in sufficient detail so that the specific wording of the changes that will cause the Do Not Approve voter to change his or her vote to Approve can readily be determined.” |
| 4037 | Ronald Murias | 4.00 | 4.13 | I object to the resolution of CID 1014. 14/337r3 has no resolution for CID 1013. It changes one paragraph in 4.13 but does not address the concerns raised (117 instances of can to be reviewed). | See comment. | Rejected-  This is an invalid comment.  For a comment to be valid:  It needs to identify where the issue is in the draft  It needs to identify what the issue is  It needs to identify a proposed change in sufficient detail that the CRC can readily identify changes that they would reasonably expect to satisfy the commenter. The wording from the IEEE-SA Standards Board Operations Manual (2010 p24) is: “This vote must be accompanied by one or more specific objections with proposed resolution in sufficient detail so that the specific wording of the changes that will cause the Do Not Approve voter to change his or her vote to Approve can readily be determined.” |
| 4036 | Ronald Murias | 4.00 | 4.13 | I object to the resolution of CID 1013. 14/337r3 has no resolution for CID 1013. It changes one paragraph in 4.13 but does not address the concerns raised (117 instances of can to be reviewed). | See comment. | Rejected-  This is an invalid comment.  For a comment to be valid:  It needs to identify where the issue is in the draft  It needs to identify what the issue is  It needs to identify a proposed change in sufficient detail that the CRC can readily identify changes that they would reasonably expect to satisfy the commenter. The wording from the IEEE-SA Standards Board Operations Manual (2010 p24) is: “This vote must be accompanied by one or more specific objections with proposed resolution in sufficient detail so that the specific wording of the changes that will cause the Do Not Approve voter to change his or her vote to Approve can readily be determined.” |
| 3431 | David Hunter | 7.00 | 4.3.12b.1 | The long list that begins: "The main MAC features supported for S1G STA are the following:" does not present concepts or terminology. Presenting a long list of undefined terms is the opposite of introducing concepts. Remove this material from clause 4. If this material is still thought to be valuable, move it to the beginning of the S1G section in clause 9. | Delete the lines from page 7 line 53 through page 8 line 12. If this material is still thought to be valuable, move it to the beginning of the S1G section in clause 9. | Rejected-  The list shows the main MAC features supported by S1G STA.  The list is meaningful for understanding the concept of the S1G STA.  If some item introduces a really new concept to IEEE 802.11 standard, we presented the detailed overview from 4.3.12b.2 to 4.3.12b.6.  Also, the wording of the same style is used in 4.3.12 Very high throughput (VHT) STA. |
| 3080 | Adrian Stephens | 7.00 | 4.3.12b.1 | You define an S1G-MCS term, but use the unqualified MCS term here. | Please use only S1G-MCS throughout the amendment when talking about clause 24 MCSs. | Revised-  Agree in principle.  TGah editor replaces MCS with S1G-MCS throughout the draft. |
| 3440 | David Hunter | 8.00 | 4.3.12b.2.1 | "The relay-AP forwards frames to non-AP STAs associated with it that are received from the AP to which the relay-STA of the same Relay entity is associated.": needs to be written in the order of the operation -- and the relay STA is associated \_with\_ the other AP. | Replace:"The relay-AP forwards frames to non-AP STAs associated with it that are received from the AP to which the relay-STA of the same Relay entity is associated."with:"When a relay AP and relay STA are in the same relay and the relay STA receives frames addressed to other STAs that are associated with the relay AP, the relay AP forwards those frames to the appropriate associated STAs.". | Revised-  This comment is addressed by the resolution of CID 3536. .  (Clauses from 4.3.12b.2 to 4.3.12b.6 are almost redundant with clause 9.)  TGah editor deletes 4.3.12b.2 to 4.3.12b.6.  For your information,  CID 3041 also suggests to reduce the size of the draft to <300 pages. |
| 3082 | Adrian Stephens | 8.00 | 4.3.12b.2.1 | "A relay-STA forwards frames from STAsassociated with the relay-AP of the same Relay entity to the AP to which it is associated. The relay-APforwards frames to non-AP STAs associated with it that are received from the AP to which the relay-STA of the same Relay entity is associated."This is not so. Relaying must surely operate at the level of the MSDU, as it does in mesh and 802.11ad. A single incoming data frame might result in multiple outgoing data frames (and vice versa) depending on fragmentation settings at each STA.Its position in the stack is important because that determines whether the receiving sta is responsible for duplicate detection, decryption, replay detection, block ack reordering etc... | Replace frame with MSDU in the cited text. Add to 5.1 a diagram showing where the relaying takes place (see REVmc D3.0 new diagrams for illustrating this). | Revised-  This comment is addressed by the resolution of CID 3536. .  (Clauses from 4.3.12b.2 to 4.3.12b.6 are almost redundant with clause 9.)  TGah editor deletes 4.3.12b.2 to 4.3.12b.6.  For your information,  CID 3041 also suggests to reduce the size of the draft to <300 pages. |
| 3209 | Alfred Asterjadhi | 8.00 | 4.3.12b.2 | This paragraph can be improved for clarity: "A relay-AP is an AP with additional functionalities for the relaying of frames (see 9.49 (Relay operation)) that resides inside a Relay entity. A relay-AP supports four-address MAC header format and includes the Relay element in its Beacon, (Re-)Association Response, and Probe Response frames." | Replace the 2nd paragraph of this subclause with the following: "A relay-AP is an AP that resides inside a Relay entity and has additional functionalities for relaying frames (see 9.49 (Relay operation)). A relay-AP supports four-address MAC header format and includes the Relay element in Beacon, (Re-)Association Response, and Probe Response frames that it transmits." | Revised-  This comment is addressed by the resolution of CID 3536. .  (Clauses from 4.3.12b.2 to 4.3.12b.6 are almost redundant with clause 9.)  TGah editor deletes 4.3.12b.2 to 4.3.12b.6.  For your information,  CID 3041 also suggests to reduce the size of the draft to <300 pages. |
| 3210 | Alfred Asterjadhi | 8.00 | 4.3.12b.2 | Also this paragraph can be improved for clarity: "A relay-STA is a non-AP STA with additional functionalities for the relaying of frames (see 9.49 (Relay operation)), which resides inside a Relay and that successfully completes association and authentication with an AP, transmits a Relay element in the (Re-)Association Request frame and receives a Relay element in the (Re-)Association Response frame." | Replace the 3rd paragraph of this subclause with the following: "A relay-STA is a non-AP STA that resides inside a Relay, which has additional functionalities for relaying frames (see 9.49 (Relay operation)), and successfully completes association and authentication with an AP that includes a Relay element in the (Re-)Association Request frame and that receives a Relay element in the (Re-)Association Response frame. | Revised-  This comment is addressed by the resolution of CID 3536. .  (Clauses from 4.3.12b.2 to 4.3.12b.6 are almost redundant with clause 9.)  TGah editor deletes 4.3.12b.2 to 4.3.12b.6.  For your information,  CID 3041 also suggests to reduce the size of the draft to <300 pages. |
| 3432 | David Hunter | 8.00 | 4.3.12b.1 | "among other benefits": marketing phrase that does not help describe concepts. | Delete ", among other benefits,". | Accepted-  Agree in principle. |
| 3433 | David Hunter | 8.00 | 4.3.12b.1 | The sentences "There are mainly two service types: sensor type and offloading type. An S1G AP may provide either or both of the services." can be put much more simply, without the inappropriate term "may". There appear to be no formally defined types, so drop the word "type". Also: the statement that there are differences still needs to be backed by definitions of what these services are. Otherwise there is no reason to include them in this standard. | Either delete these sentences "There are mainly two service types: sensor type and offloading type. An S1G AP may provide either or both of the services."or replace them with: "The S1G AP can provide either or both sensor services and offloading services". and then add short introductory descriptions of what constitutes a sensor service and what an offloading service. (Without those descriptions these sentences are worthless, so, if there are no descriptions, then just delete the two sentences quoted above.) | Revised-  I agree that “may” should be deleted.  But, regarding a sensor type station, it is defined in clause 3 as the following:  “sensor type station (STA): A sensor type STA is a non-AP STA using data frames with small payload size. A sensor type STA is also expected to have limited available power and low traffic volume.”  TGah editor replace “There are mainly two service types: sensor type and offloading type. An S1G AP may provide either or both of the services.” with  “An S1G AP can support either or both of a sensor type STA and a non-sensor type STA.” |
| 3435 | David Hunter | 8.00 | 4.3.12b.2.1 | "logically" is unnecessary: both "AP" and "STA" are logical concepts, so their combination couldn't be anything else. | Delete "is an entity that logically". | Revised-  Agree in principle.  TGah editor deletes “is an entity that logically” from page 303 line 40. |
| 3437 | David Hunter | 8.00 | 4.3.12b.2.1 | The sentence "A relay-AP is an AP with additional functionalities for the relaying of frames" makes it sound like non-relay APs don't already relay frames, which of course is false. | Replace the paragraph on lines 32 through 35 with:"A relay AP is an AP that: -- Provides a frame relay function in addition to the usual AP relay -- Resides in a relay entity -- Supports the four-address MAC frame format -- Transmits the Relay element in its Beacon, (Re-)Association Response, and Probe Response frames"Likewise, replace the paragraph on lines 37 through 42 with:"A relay STA is a non-AP STA that: -- Provides a frame relay function -- Resides inside a relay entity -- Completes association and authentication with an AP -- Transmits a Relay element in the (Re-)Association Request frame -- Supports a Relay element in the (Re-)Association Response frames that it receives" | Revised-  This comment is addressed by the resolution of CID 3536. .  (Clauses from 4.3.12b.2 to 4.3.12b.6 are almost redundant with clause 9.)  TGah editor deletes 4.3.12b.2 to 4.3.12b.6.  For your information,  CID 3041 also suggests to reduce the size of the draft to <300 pages. |
| 4159 | Yonggang Fang | 8.00 | 4.3.12b.2.1 | The root AP is a special Relay that inlcudes the relay-AP only. Suggest to clarify this in the text. | add: A non-relay-AP that has relay-STAs associated with it is known as a Root AP. "A Root AP is a special Relay that includes a relay-AP only" .... | Revised-  This comment is addressed by the resolution of CID 3536. .  (Clauses from 4.3.12b.2 to 4.3.12b.6 are almost redundant with clause 9.)  TGah editor deletes 4.3.12b.2 to 4.3.12b.6.  For your information,  CID 3041 also suggests to reduce the size of the draft to <300 pages. |
| 3536 | Graham Smith | 8.00 | 4.3.12b.2 | Clauses 4.3.12b.2-b.6 are too much for this section. They need to be removed. For example Relay description here is identical to what is in 9.49 including the figure. Just to be clear, Fig 9-43 is the same as 4-7a. Even VHT did not have this much information in the Clause 4. | Delete clauses 4.3.12b.2 to 4.3.12b.6 | Accepted-  Agree in principle.  TGah editor deletes 4.3.12b.2 to 4.3.12b.6. |
| 3638 | kaiying Lv | 8.00 | 4.3.12b.2.1 | change "control field" to "Hierarchy Indentifier subfield in the control fied" | as comment | Revised-  This comment is addressed by the resolution of CID 3536. .  (Clauses from 4.3.12b.2 to 4.3.12b.6 are almost redundant with clause 9.)  TGah editor deletes 4.3.12b.2 to 4.3.12b.6.  For your information,  CID 3041 also suggests to reduce the size of the draft to <300 pages. |
| 4009 | Richard Roy | 8.00 | 4.3.12b.2.1 | Text reads: "A relay-AP is an AP with additional functionalities for the relaying of frames (see 9.49 (Relay operation)) that resides inside a Relay entity. The Relay A relay-AP supports 4 four-address frame MAC header format and includes the Relay element in its Beacon, Association(Re-)Association Response, and Probe Response frames." There are misplaced modifiers among other editorial issues. | Suggested text: "A relay-AP is an AP that resides inside a Relay entity with additional functionalities for the relaying of frames (see 9.49 (Relay operation)). A relay-AP supports the 4 four-address frame MAC header format and includes the Relay element in its Beacon, Association(Re-)Association Response, and Probe Response frames." Make similar changes to the next paragraph on the relay-STA. | Revised-  This comment is addressed by the resolution of CID 3536. .  (Clauses from 4.3.12b.2 to 4.3.12b.6 are almost redundant with clause 9.)  TGah editor deletes 4.3.12b.2 to 4.3.12b.6.  For your information,  CID 3041 also suggests to reduce the size of the draft to <300 pages. |
| 3446 | David Hunter | 10.00 | 4.3.12b.5 | Since "bidirectional" is one word, "BDT" isn't a clear acronym. 11mc already has a defined acronym "BT"; but that acronym is not used anywhere in 11mc and will be deleted, so there will be no conflict. However, the way "BDT" is used in this text is odd -- it is not used as the name as a type of TXOP but as a name of a procedure (its descriptions -- "provides the functionality", "is intended to" etc. -- do not apply to straightforward TXOPs.) So the CRC might want to replace this term with a term like "bidirectional TXOP protocol (BTP)". | Throughout this draft either replace "BDT" with "BT" or replace "bidirectional TXOP" with "bidirectional TXOP protocol" and "BDT" with "BTP" or "BT protocol". | Rejected-  BDT is an abbreviation of a bidirectional TXOP.  Also, similar abbreviation is also used in 802.11REVmc.  For example,  BF beamforming  If you still think that an abbreviation of the BDT is problem, please submit the same comment to REVmc.  Then, we will follow the style guide of the REVmc. |
| 3448 | David Hunter | 10.00 | 4.3.12b.5 | The following sentence needs rewrite for clarity and accuracy: "As compared to Reverse Direction (RD) protocol, BDT includes requirements for PHY-layer signaling that provides medium reservation information at the lowest PHY rate to minimize the possibility of interference with the exchange." "As" is extraneous. "Reverse Direction" is not the name of a frame, field, etc, so does not need intial caps, but does need an article. The subject of "that" is "requirements", so if "requiremments" is retained, the "provides" needs to be plural. However it is much more accurate to eliminate "requirements" because it is the signaling that provides information, not the requirements. "to minimize" begins a parenthentical remark, so needs to be separated from the main sentence by a comma. | Replace: "As compared to Reverse Direction (RD) protocol, BDT includes requirements for PHY-layer signaling that provides medium reservation information at the lowest PHY rate to minimize the possibility of interference with the exchange."with: "Compared to the reverse direction (RD) protocol, BTP includes PHY-layer signaling that provides medium reservation information at the lowest PHY rate, to minimize the possibility of interference with the frame exchange." | Revised-  This comment is addressed by the resolution of CID 3536. .  (Clauses from 4.3.12b.2 to 4.3.12b.6 are almost redundant with clause 9.)  TGah editor deletes 4.3.12b.2 to 4.3.12b.6.  For your information,  CID 3041 also suggests to reduce the size of the draft to <300 pages. |
| 3445 | David Hunter | 10.00 | 4.3.12b.4 | Clause 4 is dedicated to introducing concepts, not providing a lookup table of pointers to other clauses. But "This type of partitioning, termed as RAW grouping is discussed in 9.21.5 (Restricted Access Window (RAW) Operation)." does not introduce concepts. | Delete "This type of partitioning, termed as RAW grouping is discussed in 9.21.5 (Restricted Access Window (RAW) Operation).". Also on line 28 delete "is presented in 9.48.3 (Group sectorization operation)" and on line 30 delete "The TWT grouping concept is illustrated in 9.42.5 (TWT Grouping)." | Revised-  This comment is addressed by the resolution of CID 3536. .  (Clauses from 4.3.12b.2 to 4.3.12b.6 are almost redundant with clause 9.)  TGah editor deletes 4.3.12b.2 to 4.3.12b.6.  For your information,  CID 3041 also suggests to reduce the size of the draft to <300 pages. |
| 4113 | Shusaku Shimada | 12.00 | 4.4.2 | For Relay function, one new SS function of MSDU relaying is required independently with IEEE802D MAC sublayer interconnection bridge relay. | After "The SS is as follows: a)....... j) DSE", append the following, "MSDU relaying", or "MSDU relaying to and from (coordinated) Front-haul". | Rejected-  11ah Relay functionality is not a new station service. |