IEEE P802.11
Wireless LANs

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| LB200 MAC Resolutioin for Clauses 9.51 |
| Date: 2014-03-17 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Betty Zhao | Huawei Technologies |  |  | betty.zhao@huawei.com |

Abstract

This document provides resolutions for CIDs in subclause 9.51:

1270, 1271, 1272, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1985, 1986, 2603, 2604, 2770, 1806

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| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Page** | **Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1270 | 211 | 46 | 9.51 | "Multicast ID is the AID" | "A Multicast ID is an AID" | Revised – “A Multicast AID is an AID” |
| 1271 | 211 | 60 | 9.51 | "The S1G STA with group MAC address can request Multicast ID from S1G AP through AID SwitchRequest frame." -- grammar | "An S1G STA with a group MAC address can request a Multicast ID from its S1G AP using the AID SwitchRequest frame." | Revised – “Any S1G STA that has a group MAC address may request a Multicast AID from the S1G AP through the AID Switch Request frame.” |
| 1272 | 211 | 63 | 9.51 | I got tired of reporting missing articles. There are a whole bunch of grammar errors in 9.51 that I have not reported. | TGah editor to review (or get a third party to review) the grammer in this subclause and fix it. | Revised – Please see the whole subclause below. |
| 1938 | 233 | 43 | 9.51 | I think 9.51 should be in Clause 10 | Move to Clause 10 if appropriate | Rejected – Because subclause 9.51 is mainly for the request and assignment of the Multicast AID. |
| 1939 | 233 | 48 | 9.51 | "The S1G STA with dot11MulticastIDActivated set to true shall support the implementation of Multicast ID." Not the way to say this. | Replace cited text with "A S1G STA supporting Multicast ID shall set dot11MulticastIDActivated to true." | Revised - "A S1G STA with dot11MulticastIDActivated set to true supports the implementation of multicast traffic using Multicast AID." |
| 1940 | 233 | 52 | 9.51 | if 'a' S1G AP. And 'the" S1G AP | Insert 'a' before the first S1G AP in the line. Insetrt "'the' before the third 'S1G AP in the line. | Revised – Please see the whole subclause below. |
| 1941 | 233 | 53 | 9.51 | the' DTIM beacon | Insert 'the' before DTIM beacon | Revised – Please see the whole subclause below. |
| 1942 | 233 | 54 | 9.51 | the' S1G AP | Insert 'the' before S1G AP | Revised – Please see the whole subclause below. |
| 1943 | 233 | 55 | 9.51 | the' S1G AP | Insert 'the' before S1G AP | Revised – Please see the whole subclause below. |
| 1944 | 233 | 57 | 9.51 | the' S1G AP | Insert 'the' before S1G AP | Revised – Please see the whole subclause below. |
| 1945 | 233 | 60 | 9.51 | the' S1G AP | Insert 'the' before S1G AP | Revised – Please see the whole subclause below. |
| 1946 | 233 | 63 | 9.51 | the' S1G AP | Insert 'the' before S1G AP | Revised – Please see the whole subclause below. |
| 1947 | 234 | 1 | 9.51 | the' S1G AP | Insert 'the' before S1G AP | Revised – Please see the whole subclause below. |
| 1948 | 234 | 2 | 9.51 | the' S1G STA | Insert 'the' before S1G STA | Revised – Please see the whole subclause below. |
| 1985 | 211 | 43 | 9.51 | "Flexible" is not suitable for the subclause title. | Propose to change the title as "Multicast AID". | Accepted |
| 1986 | 211 | 46 | 9.51 | Multicast AID is more suitable than Multicast ID. Propose to replace the multicast ID with multicast AID for the subclause.The text of the subclause can be further improved. For example, "multicast traffic" might be better words than "multicast data". | Suggest to use "Multicast AID" instead of using "Multicast ID". Please improve language of paragraph. | Accepted |
| 2603 | 211 |   | 9.51 | Make the description of multicast data transmission procedure clear. | Change the sentence to "For example, if S1G AP has multicast data buffered for a group of S1G STAs using Multicast ID, S1G AP may indicate the group of STAs in segment count element (8.4.2.170c) of DTIM beacon and transmit their multicast data at assigned TIM interval or time slots sequentially for their reception." | Revised - Change the sentence on Page 211 Line 52-53 to “When S1G AP has data buffered for a group of S1G STAs that belong to a Multicast AID, it indicates this condition in the page slice element (8.4.2.170c) transmitted in a DTIM beacon. The S1G STAs that detect this indication will wake up at the assigned beacon interval to determine the TIM and extract the assigned time slots that carry the buffered multicast data. The S1G AP transmits the buffered multicast data within the assigned time slots for the S1G STAs’ reception.” |
| 2604 | 212 | 6 | 9.51 | The word "13 bits" is not necessary. | Delete "13 bits" | Accepted |
| 2770 | 211 | 51 | 9.51 | Segment count element is used only for TIM segmentation that can be used to indicate Page Segment i.e. a group of AIDs but not an individual AID. It is not clear why STA can check whether S1G AP may have their buffered multicast data to deliver within the current DTIM interval by checkinig the DTIM beacon. It is not clear why "If S1G AP has multicast data to deliver to the group of S1G STAs, the group of S1G STAs will receive the multicast data at the assigned time slots" unless a RAW is used for such delivery. Need further clarification for the shown example. | Please clarify | Revised – The text is changed to “When S1G AP has data buffered for a group of S1G STAs that belong to a Multicast AID, it indicates this condition in the page slice element (8.4.2.170c) transmitted in a DTIM beacon. The S1G STAs that detect this indication will wake up at the assigned beacon interval to determine the TIM and extract the assigned time slots that carry the buffered multicast data. The S1G AP transmits the buffered multicast data within the assigned time slots for the S1G STAs’ reception.”Hope it’s clear. |
| 1806 | 211 | 52 | 9.51 | How the multicast groups are mapped to the STAs is not clearly explained  in the text | Add explanatory text | Rejected, the mapping between the multicast groups and the STAs is the AP's decision. |

**CID 1270, 1271, 1272, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1985, 1986, 2603, 2604, 2770:**

***Instruction to the editor:***

***Please make the changes to subclause 9.51 as follows:***

**9.51 Multicast AID**

A S1G STA with dot11MulticastIDActivated set to true supports the implementation of multicast traffic using Multicast AID, which follows the rules of the implementation of traffic using AID. A Multicast AID is an AID that represents a group of S1G STAs. A Multicast AID corresponds to a bit in the traffic-indication virtual bitmap. Any S1G STA that has a group MAC address may request a Multicast AID from the S1G AP through the AID Switch Request frame. Upon receiving the AID Switch Request frame, the S1G AP assigns a Multicast AID to the requested S1G STA based on its group MAC address and multicast listen interval through the AID Switch Response frame. S1G AP may assign different Multicast AIDs to S1G STAs that have the same group MAC address but different multicast listen intervals. S1G STA should maintain the link between the assigned Multicast AID to its group MAC address and multicast listen interval. For example, when S1G AP with dot11PageSlicingSupported set to true has data buffered for a group of S1G STAs with dot11PageSlicingSupported set to ture that belong to a Multicast AID, it indicates this condition in the page slice element (8.4.2.170c) transmitted in a DTIM beacon. The S1G STAs that detect this indication will wake up at the assigned beacon interval to determine the TIM and extract the assigned time slots that carry the buffered multicast data. The S1G AP transmits the buffered multicast data within the assigned time slots for the S1G STAs’ reception. The Multicast AID can be used in short MAC header (8.7.3.2) and in place of partial AID as described in 9.17b (Group ID, partial AID, UPLINK and Color in S1G PPDUs). For the S1G STAs with the group MAC address which don’t have the Multicast AID, the S1G AP doesn’t follow this clause to transmit multicast data.