IEEE P802.11
Wireless LANs

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| LB 203Comment Resolution for 9.50 |
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Abstract

This submission proposesresolutions for comments in clause9.50of TGah Draft 2.0 with the following CIDs:

* 3377, 3501, 3849

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| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 3377 | 310.53 | 9.50 | The description in this subclause is still not clear and needs further clarifications. Please make sure that consistency with other parts of the draft is kept, e.g., AID Switch Request/Response frame use, clearly indicate that the multicast delivery signaling in the TIM element uses unicast signaling (i.e., non-zero located bit indicates presence of DL BUs) and similarly for the delivery of the DL BUs (i.e., using a short frame with the RA field being a multicast AID. for groupcast delivery with PV0 frames refer the reader to FMS procedure. | As in comment. | Revised -TGah editor to make the changes shown in 11-14/1158r0 under all heading that include CID 3377 |
| 3501 | 311.9 | 9.50 | "The Multicast AID can be used in short MAC header ... and in place of partial AID as described": thinkly veiled normative statement, and missing articles. | Replace "The Multicast AID can be used in short MAC header" with "The multicast AID may be used in the short MAC header". Replace "place of partial AID as described" with "place of a partial AID, as described". | Revised -TGah editor to make the changes shown in 11-14/1158r0 under all heading that include CID 3501 |
| 3849 | 311.5 | 9.50 | "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."It seems to me that for a multicast frame with multicast AID, the AP will transmit it in a PPDU with partial AID 0 and in a PPDU with partial AID from multicast AID. The with multicast AID may receive such multicast frames multiple times. A special filter rule is needed. | Add the special rule. | Revised -TGah editor to make the changes shown in 11-14/1158r0 under all heading that include CID 3849 |

***TGah Editor: Change the clause9.50 as follows:***

**9.50 Multicast AID**

A S1G STA with dot11MulticastAIDActivated equal 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.An S1G AP signals the presence of group addressed BUs that correspond to a Multicast AID is the same as the signalling of individually addressed BUs, i.e. the AP sets the bit corresponding to the Multicast AID in the traffic-indication virtual bitmap to 1 when BUs are present, and sets it to 0 otherwise.

An S1G STA with dot11MulticastAIDActivated equal to true that has a group MAC address may request a Multicast AID from the S1G AP to which it is associated to by sending an AID Switch Request frame. Upon receiving the AID Switch Request frame, the S1G AP that supports multicast AID responds with an AID Switch Response that contains the assigned Multicast AID that corresponds to that group MAC address and the multicast listen interval as described in 10.45 (Dynamic AID assignment operation).The S1G AP may assign different Multicast AIDs to S1G STAs that have the same group MAC address but different multicast listen intervals. The S1G STA should maintainthe link between the assigned Multicast AID to its group MAC address and multicast listen interval.

The S1G AP shall indicate the presence of group addressed BUs corresponding to a multicast AID in the TIM included in the S1G Beacon framethat is sent every multicast listen interval. The S1G STA that has negotiated multicast AID operation shall wake up every multicast listen interval to receive the S1G Beacon frame.

For example, when S1G AP with dot11PageSlicingSupported equal to true has data buffered for a group of S1G STAs with dot11PageSlicingSupported equal to true that belong to a Multicast AID, it indicates this condition in the page slice element (8.4.2.170b (Page Slice element)) 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 S1G AP that has indicated the presence of group addressed BUs for a given multicast AID shall deliver these BUs using a PV1 frame with the multicast AID in the A1 field (see 8.8.3.2 (Address fields)) and settingthepartial AID as described in 9.19a (Group ID, partial AID, Uplink Indication and COLOR in S1G PPDUs).

An S1G STA that has a multicast AID assigned for a particular group MAC address shall discard any received frame that contains the group MAC address in theRA field.

NOTE – This avoids that the STA receives duplicate groupcast BUs with different multicast delivery procedures.

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.