IEEE P802.11
Wireless LANs

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| LB200 Proposed Comment Resolutions for 9.3.6 |
| Date: 2014-03-12 |
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Abstract

This submission proposes resolutions for following MAC comments of P802.11ah D1.0 WG Letter Ballot (LB200):

* 1719, 2583

R0: Initial

| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- |
| 1719 |  | 9.3.6 | "Relaying AP" and "Relaying STA" are not defined in this amendment. Also, as pointed out in another comment, the term "relay", defined as the combination of an AP and a STA, is out of scope of IEEE 802.11. | Rewrite these requirements in terms of the "relay AP" and the "relay STA", removing the terms "relaying AP" and "relaying STA". | Revised.Agree in principle.TGah editor to make changes shown in 11-14/0290r0 |
| 2583 |  | 9.3.6 | The modified text in P802.11 D1.0 may be a combination of two independent comment resolution to solve the same issue, and results odd language. | Change the modified text as follows:---an AP shall distribute the group addressed message into the BSS, except when dot11RelaySTACapable is true and the group addressed message is received from an associated non-AP STA, in which case, the group addressed message shall not be distributed into the BSS and it shall be sent as a individually addressed frame to an to the Root AP associated with corresponding Relay STA. | Revised.Agree in principle.TGah editor to make changes shown in 11-14/0290r0 |

**Discussion**

Both comments refer the same text at Page 161, Line 37. The current text is redundant, and needs to be cleaned up. The current draft text uses following two redundant conditions to specify the Relay AP;

1. An AP is a Relaying AP inside a Relay.
2. dot11RelaySTACapable is true.

According to the subclause 9.48 (Relay operation) of IEEE P802.11ah D1.2, a Relay AP is specified as an AP with dot11RelayAPOperation is true. It is necessary to use dot11RelayAPOperation instead of current conditions.

Also, the Relay AP cannot directly send the message to the Root AP contrary to the current description. The group addressed message received from a STA shall be forwarded to the Relay STA in the same Relay, then the Relay STA shall sent the group addressed message to the associated Root AP as an individually addressed frame using either a 4-address frame format or an A-MSDU format as specified in 9.48.2 (Addressing and forwarding of group addressed relay frames).

**Resolution for CID 1719 and 2583:**

Revised. TGah editor to make changes as follows;

### 9.3.6 Group addressed MPDU transfer procedure

*Instructions to TGah Editor: Modify the first paragraph as follows: ~~red text~~ shows deleted text from the draft, and blue text shows inserted text to the draft.*

In the absence of a PCF, when group addressed MPDUs in which the To DS field is 0 are transferred from a STA, only the basic access procedure shall be used. Regardless of the length of the frame, no RTS/CTS exchange shall be used. In addition, no ACK shall be transmitted by any of the recipients of the frame. Any group addressed MPDUs in which the To DS field is 1 transferred from a STA shall, in addition to conforming to the basic access procedure of CSMA/CA, obey the rules for RTS/CTS exchange and the ACK procedure because the MPDU is directed to the AP. When dot11SSPNInterfaceActivated is true, an AP shall distribute the group addressed message into the BSS only if dot11NonAPStationAuthSourceMulticast in the dot11InterworkingEntry identified by the source MAC address in the received message is true. When dot11SSPNInterfaceActivated is false, an AP ~~other than a Relaying AP inside a Relay~~ shall distribute the group addressed message ~~shall be distributed~~ into the BSS, except when ~~dot11RelaySTACapable~~ dot11RelayAPOperation is true and the group addressed message is received from a STA, in which case, the group addressed message shall not be distributed into the BSS and it shall be ~~sent as a directed frame to an associated Relay AP. A Relaying AP inside a Relay shall not distribute the group addressed message from its associated STA into the BSS, and shall forward the group addressed message to the Root AP associated with corresponding Relay STA.~~ forwarded to the Relay STA in the same Relay. The Relay STA shall send the group addressed message to the associated Root AP as an individually addressed frame using either a 4-address frame format or an A-MSDU format as specified in 9.48.2 (Addressing and forwarding of group addressed relay frames). The STA originating the message receives the message as a group addressed message (prior to any filtering). Therefore, all STAs shall filter out group addressed messages that contain their address as the source address. When dot11SSPNInterfaceActivated is false, group addressed MSDUs shall be propagated throughout the ESS. When dot11SSPNInterfaceActivated is true, group addressed MSDUs shall be propagated throughout the ESS only if dot11NonAPStationAuthSourceMulticast in the dot11InterworkingEntry identified by the source MAC address in the received message is true.