IEEE P802.11  
Wireless LANs

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| 11ac GID | | | | |
| Date: 2011-03-xx | | | | |
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Abstract

This document provides resolution for the comments listed below.

Notes on this document:

* Comments are from: 11-11-0276-00-00ac-tgac-d0-1-comments.xls.
* Comments refer to: Draft P802.11ac\_D0.1.pdf.
* In providing instruction for spec editing, the following conventions are used.
  + Red text indicates changes to be applied to existing text in Draft P802.11ac\_D0.1.pdf.
  + Text in blue is text copied from the 802.11n-2009 baseline that was not shown in the 11ac draft and that need be added to the draft, with the modifications shown in green.
  + Text in black is unmodified text from Draft P802.11ac\_D0.1.pdf.
  + Italic light gray text indicates instruction to the editor.
* GID description: 972, 986

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| 972 | 22.3.9.2.3 | 101 | 18 | TR | "A value of 63 (all ones) indicates: A single user transmission A transmission where the group membership has not yet been established A transmission that needs to bypass a group (e.g. broadcast);" Motion #8 (PHY 11/0039) in January Agenda DCN 11/0011r5 defines two values for the GID in STA-to-AP and AP-to-STA PPDUs; motion is not captured in this text | capture motion text: "In a SU VHT PPDU,  if the PPDU carries MPDUs addressed to an AP STA, the GROUP ID field is set to all zeros, otherwise it is set to all ones" | Agree. Modified text to match the motion | PHY |
| 986 | 22.3.9.2.3 | 101 | 16~23 | TR | Exact definition of Group ID field is required. The value of 0~62 should indicate Group ID of individual groups. Does Group ID 63 indicate one of the following scenarios? | Explicitly describe the meaning of the value 0~62. Clarfy the senetence for the value 63 adding "or". | Agree. Modified text to account for the motion and for the suggested clarification | PHY |

Discussion

From Motion #8 (PHY 11/0039) in January Agenda DCN 11/0011r5:

* Do you accept to modify the spec framework document with the following definition for the partial AID and Group ID field in SIG-A of a SU PPDU?
  + In a VHT PPDU that carries MPDUs addressed to a single non-AP STA, the Partial AID is set as described in slide 5 of IEEE 802.11-11/0039r0
  + In a VHT PPDU that carries MPDUs addressed to an AP STA, the Partial AID parameter is set to the lower 9 bits of the BSSID
  + In a VHT PPDU that carries group addressed MPDUs, the Partial AID is set to 0
  + In a VHT PPDU addressed to an IBSS peer STA, the Partial AID parameter is set to 0
  + In a SU VHT PPDU,  if the PPDU carries MPDUs addressed to an AP STA, the GROUP ID field is set to all zeros, otherwise it is set to all ones

Last bullet of this motion is relevant for the resolution of above comments.

Moreover, section 9.21.6 (Transmission of a VHT NDP defines):

A STA shall transmits a VHT format NDP using the following TXVECTOR parameters:

— LENGTH shall be set to 0.

— NUM\_USERS shall be set to 1.

— GROUP ID shall be set to 63 (all ones).

— NUM\_STS shall indicate two or more space-time streams

The proposed text amends the draft by matching the motion and being compliant with section 9.21.6

Proposed spec text changes

*Instructions for the Editor:*

*Red text indicates changes to be applied to existing text in Draft P802.11ac\_D0.1.pdf.*

***Text in black is unmodified text from Draft P802.11ac\_D0.1.pdf***

***Italic light gray text indicates instruction to the Editor***

**Change row 6 of table Table 22-9 - VHT-SIG-A fields**

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| --- | --- | --- | --- |
| B4-B9 | Group ID | 6 | ~~A value of 63 (all ones) indicates:~~  ~~A single user transmission~~  ~~A transmission where the group membership has not yet been established~~  ~~A transmission that needs to bypass a group (e.g. broadcast)~~  In a SU VHT PPDU that is not an NDP and that carries MPDU(s) addressed to an AP, the Group ID field is set to 0; otherwise it is set to 63.  In an NDP PPDU the Group ID is set according to 9.21.6  For a MU-MIMO PPDU the Group ID is set as in 22.3.12.3; |

Pre-motion

**Do you accept the resolution of CIDs 972, 986 as shown in this document?**