IEEE P802.11  
Wireless LANs

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| CID481, 1562 | | | | |
| Date: 2011-04-26 | | | | |
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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.

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| 481 | Hart, Brian | 22.3.13 | 134 | 37 | TR | The VHT NDP format … has the following properties … it has the same the VHT PPDU format" reads badly | Rewrite: "The format of a VHT NDP PPDU is shown in fig xxx. The VHT NDP PPDU has the following properties: - uses the VHT PPDU format without the Data field/element/portion - is a SU PPDU, as indicated by VHT-SIG-A - has the data bits of VHT-SIG-B set to a fixed bit pattern (see xxx)." And, actually, VHT-SIG-A introduces confusion: for other language (e.g. 22.3.22) it would beneficial if GID=63 was a synonym for SU, and the sub-list rewritten to allow this terminology | Agree in principle | PHY |
| 1562 | Sun, Bo | 22.3.13 | 134 | 44 | TR | The number of VHT-LTFs in NDP is not clear. The number of VHT-LTFs in NDP is indicated by Nsts in VHT-SIG-A. | Insert the description below line 43:  "The number of VHT-LTFs in NDP is indicated by Nsts in VHT-SIG-A." | Agree in principle | PHY |

Discussion

**Discussion on TR 481, 1562:**

Comments ID 481 suggested a clearer description of a VHT NDP format.

Comments ID 1562 suggested a clarification for the number of VHT-LTF in Figure 22-15. The number of VHT-LTF is determined by the total number of space time streams across all users being transmitted in the frame, as already defined in 22.3.2.

**Proposed Resolution:**

Agree in principle and propose the following spec text changes.

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 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***

## 22.3.13 VHT preamble format for sounding PPDUs

NDP shall be the only VHT sounding format.

The format of a VHT NDP PPDU~~format~~ is shown in Figure 22-15. The VHT NDP PPDU~~and~~ has the following properties:

- uses~~it has the same~~ the VHT PPDU format ~~but with no data portion~~without the Data filed

- ~~has a VHT-SIG-A indicating a SU packet~~is a SU PPDU, as indicated by VHT-SIG-A

- ~~and has VHT-SIG-B carrying a fixed bit pattern~~has the data bits of VHT-SIG-B set to a fixed bit pattern (see 22.3.9.2.6)

NOTE: the number of VHT-LTFs in NDP in Figure 22-15 is determined by *Nsts* field in VHT-SIG-A.