IEEE P802.11
Wireless LANs

|  |
| --- |
| LB188 (D3.0) resolution for the term “non-HT” |
| Date: 2012-09-19 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Mark RISON | CSR | CB4 0WZ, U.K. | +44 1223 692000 | Mark.RISON@csr.com |
|  |  |  |  |  |

Abstract

This document proposes a resolution for CID 6455 on P802.11ac/D3.0 (LB188), regarding the term “non-HT”.

## Revision History

r0: Initial revision.

## Comments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 6455 | Mark RISON |  | "non-HT", unless specifically defined, would include VHT | Make sure that "non-HT" is not ambiguous, either in the baseline or in the amendment, as to whether it includes VHT or not, by ensuring all terms including it have a specific definition in clause 3 which makes it clear whether VHT is included. Consider introducing the term "pre-HT" |

## Discussion

D3.1 explicitly defines or redefines the following terms in clause 3 in a way which makes it clear whether VHT is intended to be included:

* non-HT duplicate
* non-HT duplicate PPDU
* non-HT PPDU

Additionally, subclause 4.3.10a explicitly defines the term “HT STA” as applying to VHT STAs, so by implication it also defines the following term:

* non-HT STA

No other terms are so defined, so the default implication generally has to be that “non-HT” encompasses VHT. For example:

* “If the BSS is operating in an operating class for which the behavior limits set listed in Annex E includes the value 16, this field indicates if there exist any **non-HT OBSSs** and whether HT-greenfield transmissions are allowed.”
* “Values in **non-HT 20 MHz channel**”
* “This attribute specifies the set of **non-HT data rates** at which the station may transmit data.”
* “Mandatory support for responding to a bandwidth indication […] in a **non-HT RTS frame**”

The collocations which can be found in 802.11-2012 are (this list is not guaranteed to be exhaustive):

* non-HT duplicate frame/format
* non-HT frame
* non-HT L-SIG TXOP protection
* non-HT SIG Length/Rate field
* non-HT Short Training/Long Training/SIGNAL field
* non-HT upper format/lower format
* non-HT BSS/OBSS
* non-HT transmission/packet/format/channel
* non-HT mixed mode
* non-HT reference/basic/data rate
* non-HT device
* non-HT portion of the preamble
* non-HT PLCP preamble/header
* non-HT compatible part
* non-HT data rate

## Proposed changes

Add the following to subclause 3.2:

non-high throughput (non-HT): neither high throughput (HT) nor very high throughput (VHT), unless explicitly stated or defined otherwise.

## Proposed resolution

6455: REVISED. See Proposed changes in 12/1163r1, which address the issue, though not in the way suggested by the commenter.