IEEE P802.11  
Wireless LANs

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| LB201 Comment Resolutions for CIDs 4999 and 4724 | | | | |
| Date: 2014-09-16 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Xiaofei WANG | InterDigital Communications, Inc. |  |  | xiaofei.wang@interdigital.com |
| Joseph LEVY | InterDigital Communications, Inc. | 2 Huntington Quadrangle Melville, NY 11747 | +1.516.835.9353 (m) | joseph.levy@interdigital.com |

Abstract

This document provides comment resolutions for CIDs 4999 and 4724 and where appropriate proposed text changes to the draft. These comments address clauses 8.6.8.34, and Appendix C. The baseline for this comment resolution is 802.11ai Draft 2.1.

This document consists of a Table of proposed resolutions. This table is followed by red lined text changes for theses resolutions, to aid the Editor in implementing the proposed resolutions.

**Table of Proposed Resolutions**

| **CID** | **Comment** | **Proposed Change** | **Proposed Resolution** | |
| --- | --- | --- | --- | --- |
| 4999 | "The 3-bit Operating Channel Bandwidth subfield indicates the channel bandwidth of the AP, as coded in Table 8-273b (Operating Channel Bandwidth)." The Operating Channel Bandwidth is dynamic, so how this field should be set? And, how does this value help the FILS operation? | Please clarify and modify the text accordingly; | Revised: Agree that the text should be changed to make things more clear. However, for a particular AP configuration, the Operating Channel is not dynamic. The operating channel is defined in P802.11-RevMC/D3.0 as: The operating channel is the channel in which beacons are transmitted. This variable should be used in the same way as the variable “BSS operating channel width” that is used for VHT BSS and TVHT BSS. A VHT BSS AP or a TVHT BSS AP announces the BSS operating channel width in its Beacon frames, Probe Response frames and (Re)Association frames in the HT operation element and VHT Operation element. The BSS operating channel width may be changed using Extended Channel Switch procedure, which is not expected to take place frequently.  Change the term “Operating Channel Bandwidth” to “BSS operating channel width”, the term that is used for the same variable in Clause 22 and 23.  Notes to Editor: Resulting changes are shown in 14/1270r0 | |
| 4724 | "station may respond with a single Beacon or Probe Response frame addressed to broadcast address, to two or more received Probe Request frames" -- this suggests a station may send an additional Beacon (additional to the ones it normally sends after TBTTs) | Reword to make it clear the options are (a) send a single PR or (b) just wait until the next Beacon goes out as usual | Revised – agreed in principle, change text to read:  dot11OmitReplicateProbeResponses OBJECT-TYPE  SYNTAX TruthValue  MAX-ACCESS read-write [CID 2107]  STATUS current  DESCRIPTION  "This is a control variable. It is written by an external management entity. Changes take effect as soon as practical in the implementation.  This attribute, when true, indicates that the station may respond to two or more received Probe Request frames with a single Probe Response frame addressed to broadcast address. Alternatively, the station may respond to one or more received Probe Request frames by omitting the response of the Probe Response frame and transmitting a Beacon frame at TBTT as the response."  DEFVAL { false }  Note to Editor: Resulting changes are shown in 14/1270r0 |

**Red Lined Text Changes for the Proposed Resolutions:**

**CID 4999**

**Instructions for Editor: please modify the text of 8.6.8.34, Page 67, Line 34 with the following changes:**

The FD Capability field contains the information that advertises the capabilities of the STA transmitting the FD frame. Its length is 2 octets. Its presence is indicated by a 1-bit Capability Presence Indicator in the FD Frame Control. The format of the FD Capability field is shown in Figure 8-589c (Format of the FD Capability field format [CID 4618]).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 | B1 | B2 B4 | | | B5 B7 | | |
|  | ESS | Privacy | BSS Operating Channel Width | | | Number of Spatial Streams [CID 4889] | | |
| Bits: | 1 | 1 |  | 3 | 3 | | | |
|  |  |  |  |  |  |  |  |  |
|  | B8 | B9 | B10 B12 | | | B13 B15 | | |
|  | Reserved | Multiple BSSIDs Presence Indicator | PHY Type | | | FILS Minimum Rate | | |
| Bits: | 1 | 1 | 3 | | | 3 | | |
| * FD Capability field format [CID 4618] | | | | | | | | |

[14/0412r3]

The subfields ESS and Privacy are interpreted as specified in 8.4.1.4 (Capability Information field). [13/1339r1]

The Multiple BSSIDs Presence subfield is 1 bit in length and is set to 1 to indicate that the Multiple BSSID element is present in the Beacon frame. It is set to 0 to indicate that the Multiple BSSID element is not present in the Beacon frame.

The 3-bit BSS Operating Channel Width subfield indicates the BSS operating channel width of the transmitting AP, as defined in Table 8-273b (Operating Channel Bandwidth).

|  |  |
| --- | --- |
| * BSS operating channel width | |
| BSS Operating Channel Width Subfield (3 bits) | BSS operating channel width |
| 0 | 20 MHz or 22 MHz |
| 1 | 40 MHz |
| 2 | 80 MHz |
| 3 | 160 MHz or 80+80 MHz |
| 4 - 7 | Reserved |

*Note to Editor: the rest of this clause is unchanged.*

**CID 4724**

**Instructions for Editor: please modify the text of C.3, Page 122, Line 58 (Draft 2.1) with the following changes:**

dot11OmitReplicateProbeResponses OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write [CID 2107]

STATUS current

DESCRIPTION

"This is a control variable. It is written by an external management entity. Changes take effect as soon as practical in the implementation.

This attribute, when true, indicates that the station may respond to two or more received Probe Request frames with a single Probe Response frame addressed to broadcast address. Alternatively, the station may respond to one or more received Probe Request frames by omitting the response of the Probe Response frame and transmitting a Beacon frame at TBTT as the response."

DEFVAL { false }

**References:**

1. **IEEE 802.11-14/0565r18, TGai LB201 comments on D2.0, Marc Emmelmann, 2014-07-14**
2. **IEEE P802.11ai™/D2.1, July 2014**