###  **IEEE P802.11Wireless LANs**

|  |
| --- |
| Channel Usage |
| Date: 2024-04-16 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Brian Hart | Cisco Systems |  |  | brianh@cisco.com |
|  |  |  |  |  |
|  |  |  |  |  |

**Abstract**

No available CID; but soliciting the following change regardless.

**Revisions:**

* Rev 0: Initial version of the document.

***TGme editor: Please note Baseline is 11me D5.0. Edits are expressed via Word track changes:***

***Belated Comment:***

1. The Channel Usage element could be sent in a groupcast frame, and so it is desirable that all intended recipients understand the listed operating classes. Then, for wider bandwidths (thinking ahead to 320 MHz), there should be a way to interpret 160 and an adjacent 160 as 320 MHz
2. The Channel Usage element was designed in an era of 20 MHz and 40 MHz channels in 5 GHz. With 6 GHz, there are many more channels and channel bandwidths, so a way to leverage the wider bandwidths to compress the element is desirable.

***Proposed resolution:***

Revised: add text in 11.21.15 Channel Usage to account for these goals.

***Changes for this non-comment:***

11.21.15 Channel usage procedures

***Insert the following text at P2781L53 (after first two paragraphs in this section):***

A Channel Entry field, in a Channel Usage element with Usage Mode equal to 0 or 2, shall be interpreted as a recommendation for the indicated channel, and also for all narrower channels fully encompassed by the bandwidth of the indicated channel.

NOTE – For example, if such a Channel Usage element indicates Global Operating class 128 and Channel 42 (80 MHz at 5 GHz) is a recommendation for that 80 MHz channel, and also for the two 40 MHz channels (36+40, 44+48) and the four 20 MHz channels (36, 40, 44, 48) within that 80 MHz channel.

The operating class(es) included in a Channel Usage element should be selected such that they are expected to be understood by the intended recipient(s) of the element. Channel Entry entries in a Channel Usage element that indicate channels that span a single contiguous bandwidth where the Channel Usage element is sent in a group addressed frame shall be interpreted as a recommendation for each of the identified channels and also for any channel that fully encompasses one or more of the identified channels and is within the contiguous bandwidth.