IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Comment Resolution for Subclauses 8.4.2.170m | | | | |
| Date: 2013-07-06 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Yuan Zhou | I2R | 1 Fusionopolis Way, Connexis South Tower, Singapore 138632 | +65 6408 2472 | yzhou@i2r.a-star.edu.sg |
| Zander Lei | I2R | 1 Fusionopolis Way, Connexis South Tower, Singapore 138632 |  |  |

Abstract

This document provides resolutions for CID 552, 553.

The changes are in the following subclauses: 8.4.2.170m

Table of Contents

[0 Revision Notes 2](#_Toc354045214)

[1 Proposed Changes 3](#_Toc354045215)

# 0 Revision Notes

R0: First draft

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Comment** | **Page Number** | **Subclause** | **Line Number** | **Proposed Changes** | **Proposed Resolution** |
| 552 | In 2nd paragraph of subclause 8.4.2.170m, N is defined as the number of channels for which a channel activity schedule is being provided. But, N shall be number of schedules. | 94 | 8.4.2.170m | 37 | Modify the 2nd paragraph of subclause 8.4.2.170m as following.  ---  N is the number of channel activity schedules being provided. | **Accepted** |
| 553 | In Channel Activity Schedule, allowed channels are specified by bitmap, and does not specify primary channel. If STAs select different (un-overlapped) channels, they cannot detect collision.  The Maximum Transmission Width field is only 2bit, is not enough.  Also, Channel Activity Schedule subfield does not specify the duration of schedule. | 94 | 8.4.2.170m | 40 | Revise Channel Activity Schedule field as following.  - Use (temporary) primary channel no and primary channel offset to specify allowed channel.  - Assign 3bits to the Maximum Transmission Width field  - Assign start time and duration | **Revised** |

# Proposed changes

8.4.2.170m Subchannel Selective Transmission element

*CID 552: The proposed resolution is to accept the comments and make the following modification to the text:*

***Modify the paragraph starting at Page 94 Line 37 as follows:***

N is the number of ~~channels for which a channel activity schedule is~~ channel activity schedules being provided.

*CID 553: The proposed resolution is to revise the text based on the comments.*

***Discussions:***

- STAs are aware of primary channel. It is not necessary to indicate primary channel in SST element.

- 2 bits are sufficient to indicate Maximum transmission width of 2, 4, 8, and 16 MHz. We just need to specify the mapping between the field value and bandwidth.

- The SST defines channel activity within a beacon interval, as described in 9.32k. Hence it is not necessary to indicate the duration of SST. The Channel Activity Schedule subfield already contains the Activity Start Time to indicate start time.

***Modify the paragraph starting at Page 95 Line 13 as follows:***

The Maximum Transmission Width field indicates the maximum permitted PPDU bandwidth for a

transmission on the indicated channel. The maximum permitted PPDU bandwidth is in MHz and is determined based on the Maximum Transmission Width subfield as shown in Table 8-191e1.

**Table 8-191e1 – Mapping between Maximum Transmission Width field and maximum permitted PPDU bandwidth**

|  |  |
| --- | --- |
| Maximum Transmission Width (Bit 1 Bit 0) | Maximum permitted PPDU bandwidth (MHz) |
| 0 0 | 2 |
| 0 1 | 4 |
| 1 0 | 8 |
| 1 1 | 16 |