IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Optional SF Exchange Indication | | | | |
| Date: 2014-03-15 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Liwen Chu | Marvell | 5488 Marvell Ln, Santa Clara, CA 95054 | 1-408-222-0694 | liwenchu@marvell.com |

Abstract

This submission proposes the method for a S1G STA to indicate whether it supports SF exchange or not.

**Discussion:**

Currently a S1G STA is mandatory as a receiver of SF exchange. We believe that the receiving SF exchange should be optional. This can simplify the S1G STA’s implementation.

***Editing instructions formatted like this are intended to be copied into the TGah Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGah Editor: Editing instructions preceded by “TGah Editor” or “Editorial Instruction” are instructions to the TGah editor to modify existing material in the TGah draft. As a result of adopting the changes, the TGah editor will execute the instructions rather than copy them to the TGah Draft.***

**8.4.2.170k S1G Capabilities element**

***TGah Editor: Add 1-bit “SF Exchange Capable” by using one reserved bit in Figure 8-401dg—S1G Capabilities Info field.***

***TGah Editor: Add the following row at the end of Table 8-191d—Subfields of the S1G Capabilities Info field:***

|  |  |  |
| --- | --- | --- |
| SF Exchange Capable | Indicates the support of speed frame exchange Operation described in 9.44 Speed Frame Exchange. | Set to 0 if not supported.  Set to 1 if supported. |

9.44 Speed Frame Exchange

**9.44.1 Overview**

***TGah Editor:*** Insert the following text at the end of clause 9.44.1:

An S1G STA with dot11SFExchangeCapable set to true shall set the SF Exchange Capable field in the S1G Capabilities element to 1. An S1G STA with dot11SFExchangeCapable set to false shall set the SF Exchange Capable field in the S1G Capabilities element to 0. A S1G STA shall not use the speed frame exchange procedure to transmit frames to another S1G STA whose SF Exchange Capable field is equal to 0.