802.11ba Draft Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Spec text update for WUR-FDMA-channel-access | | | | |
| Date: 2018-07-08 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Rojan Chitrakar | Panasonic |  |  | Rojan.chitrakar@sg.panasonic.com |
| Yongho Seok | MediaTek |  |  |  |
| Alfred Asterjadhi | Qualcomm Inc. |  |  |  |

Abstract

This submission contains spec text to be incorporated in the next draft of 802.11ba:

The content of this document is based on 11-18/0822r3 and 11-18/790r1:

Revision History:

* Rev 0: Initial version of the document

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

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

**Discussion:**

**The text in this document was originally proposed in 11-18/790r1 in the May meeting but was removed upon request for deferral. The text has been updated following email and offline discussions.**

**Straw Poll: Do you agree to incorporate the proposed changes provided in document 11-18/1170r0 in the next draft of TGba?**

**Y/N/A**

**31.9.1 WUR FDMA channel access**

***TGba Editor: Instruction: Modify the subclause as follows (Track changes ON):***

In PHY-CCA.indication primitive and Table 10-10 (Channels indicated idle by the channel-list parameter), the primary channel, secondary 20 MHz channel, and the secondary 40 MHz channel are replaced by the WUR primary channel, the WUR secondary 20 MHz channel, and the WUR secondary 40 MHz channel.

The WUR AP may use any AC for sending multiple WUR Wake-up frames in a WUR FDMA PPDU.

If a WUR AP intends to transmit a WUR FDMA PPDU (as defined in 10.22.2.4 (Obtaining an EDCA TXOP) and 31.2 (Channel access)), the WUR AP shall perform exactly one of the following actions:

* Transmit the 40 MHz WUR FDMA PPDU in the WUR primary 40 MHz channel when the following conditions are met:
* The WUR secondary channel was idle during an interval of PIFS immediately preceding the start of the TXOP.
* The WUR AP schedules one WUR frame transmission on each of 20 MHz subchannels of the WUR primary 40 MHz channel.
* Transmit the 80 MHz WUR FDMA PPDU on the WUR primary 80 MHz channel when the following conditions are met:
* Both the WUR secondary channel and the WUR secondary 40 MHz channel were idle during an interval of PIFS immediately preceding the start of the TXOP.
* The WUR AP schedules one WUR frame transmission on each of 20 MHz subchannels of the WUR primary 80 MHz channel.
* Transmit the 80 MHz preamble punctured WUR FDMA PPDU on the WUR primary 80 MHz channel when the following conditions are met:
* At least one of the 20MHz subchannels of the WUR secondary channel and the WUR secondary 40 MHz channel were idle during an interval of PIFS immediately preceding the start of the TXOP.
* The WUR AP schedules one WUR frame transmission on each of 20 MHz subchannels of the WUR primary 80 MHz channel, except when the subchannel was not idle or the WUR AP does not have a pending WUR frame intended for WUR non-AP STAs listening on that subchannel.

In any of the above actions, if the WUR AP transmits any WUR frame on a channel that is not the WUR primary channel, then the WUR AP shall transmit a WUR frame, which can be any WUR frame, on the WUR primary channel.