IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CC35 CID 371 for 802.11ah | | | | |
| Date: 2021-11-06 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Dave Goodall | Morse Micro |  |  | dave@morsemicro.com |
| Dave Halasz | Morse Micro |  |  | dave.halasz@morsemicro.com |

Abstract

This submission proposes resolutions for the following comments from comment collection 35 on P802.11-REVmeD0.0:

371

**Revision History:**

R0: Initial version

# CID 371

|  |  |  |  |
| --- | --- | --- | --- |
| CID | Clause | Comment | Proposed Change |
| 371 | 10 | An S1G STA can't transmit to a non-S1G STA, so delete the bit in asterisks in "transmitted by an S1G STA \*\*\*to another S1G STA\*\*\*" and "sent by the non-AP S1G STA \*\*\*to the S1G AP\*\*\*" (2x), "transmitted by an S1G STA \*\*\*to another S1G STA\*\*\*", "An S1G STA that initiates a TXOP with a PV1 frame or an NDP CMAC PPDU shall not send an RTS frame \*\*\*to an S1G STA\*\*\*", "An S1G AP should not assign \*\*\*to an S1G STA,\*\*\* an AID", "shall not send a PS-Poll with the Poll Type subfield equal to 1\*\*\* to an S1G STA\*\*\*." | As it says in the comment |

## Discussion:

Counter: After a search using the following phrases, I agree with the commenter except in one paragraph.

1. "transmitted by an S1G STA to another S1G STA"
   * Accept changes
2. "sent by the non-AP S1G STA to the S1G AP"
   * Counter: since NDPs may also be sent between non-AP STAs so it is necessary to retain the differentiation between AP and non-AP STA in this paragraph so only S1G is removed
3. "An S1G STA that initiates a TXOP with a PV1 frame or an NDP CMAC PPDU shall not send an RTS frame to an S1G STA"
   * Accept changes
4. "An S1G AP should not assign to an S1G STA an AID":
   * Accept changes
5. "shall not send a PS-Poll with the Poll Type subfield equal to 1 to an S1G STA."
   * Accept changes

### Proposed Changes using 802.11me d0.4 as a baseline:

* P2075.10 (search phrase 1)

NOTE 3—A fragmented MSDU or MMPDU transmitted by an S1G STA can be acknowledged either using immediate acknowledgment (i.e., transmission of an (NDP) Ack frame after a SIFS) or using fragment BA described in 10.3.2.12 (Fragment BA procedure).

* P5828.20 (search phrase 1)

(\* The s1g-rts-cts term applies to RTS transmitted by an S1G STA. When the RTS is transmitted using an S1G non-duplicate PPDU or S1G 2 MHz duplicate PPDU, the transmission of the RTS is delayed so that at least a PIFS has elapsed since the previous frame exchange sequence (see 10.23.2.7 (Sharing an EDCA TXOP)) and the RTS is transmitted with a Dynamic Indication field set to 1 (see 10.3.2.6 (RTS/CTS with fragmentation)). \*)

* P2193.40 (search phrase 2)

As an example of the PARTIAL\_AID setting, consider the case of a BSS with BSSID 00-21-6A-AC-53-52 that has as a member a non-AP S1G STA assigned AID 5. In an NDP sent by the non-AP S1G STA to the AP, the PARTIAL\_AID is equal to 165. In an NDP sent by the S1G AP to the non-AP STA associated with that S1G AP, the PARTIAL\_AID is equal to 229. In a non-1 MHz S1G PPDU that is not an NDP and that is sent by the non-AP S1G STA to the AP, the PARTIAL\_AID is set to 165. In a non‑1 MHz S1G PPDU that is not an NDP that is sent by the S1G AP to the non-AP STA associated with that S1G AP, the PARTIAL\_AID is set to 37.

* P2093.4 (search phrase 3)

An S1G STA that initiates a TXOP with a PV1 frame or an NDP CMAC PPDU shall not send an RTS frame for the duration of the TXOP.

* P2193.24 (search phrase 4)

An S1G AP should not assign an AID that results in the PARTIAL\_AID value [as computed using Equation (10-15) (in Table 10-16 (Settings for the TXVECTOR parameter PARTIAL\_AID for an NDP)) or Equation (10-16) (in Table 10-17 (Settings for the TXVECTOR parameter PARTIAL\_AID for non 1 MHz PPDUs and non-NDPs))] being equal to one of the following:

* P2681.14 (search phrase 5)

An S1G STA in TIM mode shall not send a PS-Poll with the Poll Type subfield equal to 1.

**References:**