IEEE P802.11
Wireless LANs

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| Clarification of RD for SEMM access policy |
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Abstract

Few clarifications are presented for 9.28.3 Rules for RD initiator and 9.28.4 Rules for RD responder in relation to CID5222

*Discussion:*

*End to end prioritization of internal queues is important to manage quality of service. Current approach limits TXOP under RD to be used by the same AC in both direction. It means that multiple AC should be used to support multiple queues. Downside of this approach is that each AC requires overhead of separate link access.*

*End to end internal links can be established over P2P TSPEC. TSID allows queue identification over single AC w/o overhead to switch between TS of the same AC. In the current definition reverse direction cannot be limited to TSID so no way to keep quality of service in case of multiple queues sharing the same AC. Use of TSID is allowed in all kinds of CBAP allocation so I propose to have few changes to support end to end quality of service of queues identified by TSID when the access policy is set to SEMM. It still keeps the current approach if there is no TSPEC associated with or the access policy is EDCA.*

**9.28.3 Rules for RD initiator**

*P1397L52*

*Editor change as follows:*

An RD initiator that sets the RDG/More PPDU field to 1 in a +HTC or DMG frame shall set the AC Constraint subfield to 1 in that frame if the following conditions are met:

* allocation is a TXOP and the TXOP was gained through the EDCA channel access mechanism.
* In the case of a DMG frame, the Access Policy subfield in the TS Info field of the TSPEC element used to set up the TS is equal to a value different than SEMM

If the allocation is not a TXOP or the TXOP is not gained through the EDCA channel access mechanism, the AC Constraint subfield shall be set to 0.

**9.28.4 Rules for RD responder**

P1399L12

*Editor change as follows:*

If the AC Constraint subfield is equal to 1 and the Access Policy subfield in the TS Info field of the TSPEC element used to set up the TS is equal to a value different than SEMM the RD responder shall transmit Data frames of only the same AC as the last frame received from the RD initiator.

If the AC Constraint subfield is equal to 1 and the Access Policy subfield in the TS Info field of the TSPEC element used to set up the TS is equal to SEMM, the RD responder shall only transmit Data frames of the same AC and TSID as the last frame received from the RD initiator.

**References:**

1. IEEE P802.11-REVmc/D4.0