IEEE P802.11
Wireless LANs

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| Detailted text proposal for UHR SCS |
| Date: 2024-11-10 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Dibakar Das | Intel |  |  | Dibakar.das@intel.com |
| Dmitry Akhmetov |  |  |  |
| Abdel Ajami | Apple |  |  |  |
| Thomas Derham | Broadcom |  |  |  |
| Sanket Kalmakar | Qualcomm |  |  |  |
| Insun Jang | LG Electronics |  |  |  |
| Liwen Chu | NXP |  |  |  |
| Rubayet Shafin | Samsung |  |  |  |
| Jinho Choi |  |  |  |
| Kaiying Lu | Mediatek |  |  |  |
| Sato Takuhiro | Sharp |  |  |  |
| Akira Kishida | NTT |  |  |  |

Abstract

The authors prepared this document to describe in details some enhancements to the SCS feature for the proposed TGbn (UHR, Ultra High Reliability) amendment to the 802.11 standard.

The authors look forward to working with all interested participants to prepare an official proposal for specification text on this topic.

Some relevant IEEE contributions:

<https://mentor.ieee.org/802.11/dcn/24/11-24-1899-00-00bn-uhr-scs-enhancements.pptx>

<https://mentor.ieee.org/802.11/dcn/23/11-23-0069-01-0uhr-considerations-on-latency-improvement.pptx>

<https://mentor.ieee.org/802.11/dcn/24/11-24-0463-02-00bn-qos-enhancements-for-uhr.pptx>

# Text to be adopted begins here:

***TGbn editor: Please update the following subclause and add it to the 802.11bn draft D0.1:***

**9.4.2.326 QoS Characteristics element**

- The TID subfield contains the TID value of the data frames that are described by this element. . The TID subfield is set to the same value as the User Priority field by a non-UHR STA (see 35.17 EHT SCS Procedure). The TID subfield ~~is~~ may be set to the same or a different value than that of ~~as~~ the User Priority field by an UHR STA (see 37.x UHR SCS Procedure). The values 8–15 are reserved.

***TGbn editor: Please add the following new subclause UHR SCS procedure to the 802.11bn draft D0.1:***

**37.x UHR SCS procedure**

A non-AP STA that intends to use an additional TIDfor an SCS stream that belong to an access category AC\_VO or AC\_VI during an SCS agreement may send an SCS Request with a QoS Characteristics element according to the following rules:

* The additional TID shall be in the range 0 through 3 inclusive.
	+ The TID subfield is set to the additional TID value.
	+ The UP subfield is set to a value that corresponds to the access cateogory to be used by that stream i.e,, to a value between 4 and 7 (inclusive).
	+ The Direction subfield is set to indicate Uplink or Downlink direction.

A STA should attempt to use an additional TID from AC\_BK before attempting to use an additional TID from AC\_BE access cateogory.

The STA shall not request concurrent activation of both TIDs 0 and 3 as additional TIDs for SCS stream, or concurrent activation of both TIDs 1 and 2 as additional TIDs.