IEEE P802.11
Wireless LANs

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| CR for Traffic Delivery in non-Trigger-Enabled rTWT |
| Date: January 20, 2022 |
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 Abstract

This submission proposes resolutions for following CIDs received for TGbe CC36:

6411

Revisions:

* Rev 0: Initial version of the document.

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbe Draft. This introduction is not part of the adopted material.

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

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

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| **CID** | **Commenter** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 6411 | Muhammad Kumail Haider | 126.18 | 9.4.2.199 | A PDT and motion(#2920) was passed to make changes to TWT element to accommodate restricted TWT schedule announcements and negotiations. Part of proposed changes is to introduce an r-TWT traffic info field to indicate latency sensitive TIDs. However, it is not specified whether there are any restrictions on the type of frames and whether frames of other TIDs may also be transmitted by member STAs of an r-SP. | Specify if and how TIDs indicated in r-TWT traffic info field are used to restrict certain type of traffic/frames from member STAs in r-SP (in 9.4.2.199 or 35.7). Appropriate restrictions should apply to prioritize and/or limit the usage of r-SPs for latency sensitive traffic delivery, in accordance with the objective of r-TWT operation. | Revised-Agree in principle with the comment. Rules are added for the traffic delivery within the rTWT SP.TGbe editor:Please implement changes as shown in this document tagged as 6411. |

**Discussion**: Since the design target of r-TWT is to designate a dedicated period of time for low latency traffic transmission, we should give the highest priority to the transmission of low latency traffic during the r-TWT SP. Hence it is reasonable to disallow the transmission of non low latency traffic during the r-TWT SP to make sure that only the traffic belonging to the low latency TIDs can be transmitted during the r-TWT SP. Once the transmissions of all the low latency TIDs are finished, and there are still some remaining time in the current r-TWT SP, the AP can terminate the current r-TWT SP, then all the STAs can contend the channel to transmit the non low latency traffic.

***TGbe editor: Please note baselines are REVme D1.0 and 11be D1.4***

**37.7.5 Traffic delivery**

***TGbe editor: Please add the following at the end of this subclause***

In a non-trigger-enabled r-TWT SP, an r-TWT scheduled STA shall not contend the channel to transmit QoS Data frames of TID(s) that are not r-TWT UL TID(s). A non-AP EHT STA with dot11RestrictedTWTOptionImplemented set to true that is not an r-TWT scheduled STA for the current r-TWT SP shall not contend the channel to transmit any frame. When the r-TWT scheduling AP finds that all the r-TWT scheduled STAs have completed the delivery of their buffered QoS Data frames of r-TWT TID(s), and the r-TWT scheduling AP has also completed the delivery of its buffered QoS Data frame of the DL r-TWT TID(s) for all the r-TWT scheduled STAs, the r-TWT scheduling AP should transmit a r-TWT SP termination frame to terminate the current r-TWT SP, after which the QoS Data frames of TID(s) that are not r-TWT UL TID(s) can be transmitted. (#6411)

**Straw Poll: Do you support to incorporate the proposed draft text in this document 11-22/0140r0 to the next revision of TGbe Draft?**

**Result: Yes/No/Abstain**