IEEE P802.11
Wireless LANs

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| PIFS error recovery |
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| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Yunbo Li | Huawei |  |  | liyunbo@huawei.com |
| Ming Gan |  |  |  |  |
| Yuchen Guo |  |  |  |  |
| Guogang Huang |  |  |  |  |
| Yousi Lin |  |  |  |  |
| Zhenguo Du |  |  |  |  |
| Stephen McCann |  |  |  |  |
| Edward Au |  |  |  |  |
|  |  |  |  |  |

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| **CID** | **Commenter** | **Clause**  | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 10421 | yan li | 35.3.16.7 | 458.42 | Whether the MLD may use SIFS or PIFS depends on the receive status of the response frame on the other link.For example,when the status of the response frame on link1 is successful and the end time of the last PPDU on link1 is 4us before the corresponding one on link2 (link1 and link2 are a NSTR pair),the MLD can not use SIFS between the end time of the response frame and the next PPDU,because the MLD can not recovery in a SIFS-4us after a failed reponse frame on link2 | as the comment | RevisedThe intention of the text is to say that the MLD has flexibility to choose to use SIFS or PIFS on the link that the response frame is correctly received. Agree with the commenter that when SIFS is used on link1 (success), the error recovery on link2 (if failed) will be blocked due to cross link interference.NOTE 3 is added for the clarification.TGbe editor to make changes in this document under CID 10421 in 22/1049r1 |
| 11267 | Sigurd Schelstraete | 35.3.16.7 | 458.61 | Change "On the link that the response frame ends last," to "On the link on which the response frame ends last," | See comment | ACCEPTED |
| 11268 | Sigurd Schelstraete | 35.3.16.7 | 459.01 | Change "On the link that the response frame ends last," to "On the link on which the response frame ends last," | See comment | ACCEPTED |
| 11269 | Sigurd Schelstraete | 35.3.16.7 | 459.05 | Change "On the link that the response frame ends first," to "On the link on which the response frame ends first," | See comment | ACCEPTED |
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**Discussion:**

1. **Introduction**

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. The introduction and the explanation of the proposed changes are 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).***

1. **Proposed spec text**

The baseline for this text is TGbe D2.0

***TGbe editor: Modify the paragraphs in 35.3.16.7 (Error recovery on a NSTR link pair within PIFS) as follows:***

If the MLD ensures that the difference between the end times of the two PPDUs carrying the expected response frames is less than or equal to 4 μs, the MLD may use either SIFS or PIFS between the end time of the PPDU carrying the response frame and the next PPDU sent in the same TXOP on the link where the response frame is received correctly, regardless of the PPDU receive status of the other link of the NSTR link pair.

NOTE 1—The value of 4 μs is derived from aRxTxTurnaroundTime used in 35.3.16.5 (PPDU end time alignment).

NOTE 2—It is stricter to maintain the difference between the end times of the two PPDUs carrying the expected response frame be less than or equal to 4 μs, when compared with the requirement of PPDU end time alignment in 35.3.16.5 (PPDU end time alignment).

NOTE 3—If SIFS is used between the end time of the PPDU carrying the response frame and the next PPDU sent in the same TXOP on the first link of the NSTR link pair where the response frame is received correctly, the PIFS recovery on the second link of the NSTR link pair might fails due to the interference caused by the transmission of the STA operating on the first link.（#10421）

If the MLD ensures that the difference between the end times of the two PPDUs carrying the expected response frames is less than or equal to 8 μs (see 35.3.16.5 (PPDU end time alignment)), after two PPDUs with end time alignment (and the PPDUs carrying the expected response frames also have end time alignment) are transmitted by STAs affiliated with the MLD on two links that belongs to a NSTR link pair of the MLD, if PHY-RXSTART.indications are received on both links, but the response frames contained in the corresponding PPDUs are not successfully received in at least one of the links of the NSTR link pair, then:

—On the link on which the response frame ends last, if the response frame is successfully received, the time from the end of the PPDU carrying the response frame to the next PPDU sent in the same TXOP should be larger than or equal to SIFS and smaller than or equal to PIFS;

—On the link on which the response frame ends last, if the response frame is not successfully received (i.e., FCS fails), the time from the end of the PPDU carrying the response frame to the next PPDU sent in the same TXOP should be larger than or equal to PIFS - 4 μs and smaller than or equal to PIFS;

—On the link on which the response frame ends first, the time from the end of the PPDU carrying the response frame to the next PPDU sent in the same TXOP should be PIFS.

***End of change***