IEEE P802.11  
Wireless LANs

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| Proposed Spec Text  Multi-link Channel Access: General-STR | | | | |
| Date: 2020-09-01 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Insun Jang | LG Electronics | 19, Yangjae-daero 11gil, Seocho-gu, Seoul 137-130, Korea |  | Insun.jang@lge.com |
| Namyeong Kim |  | namyeong.kim@lge.com |
| Jeongki Kim |  | jeongki.kim@lge.com |

Abstract

This submission proposes spec text for multi-lijnk channel access: General-STR to be incorporated into 801.11be D0.1

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Divided into two subcluases and Updated texts based on comments by some members

The texts are based on the following motion

802.11be shall allow the following asynchronous multi-link channel access:

* Each of STAs belonging to a MLD performs a channel access over their links independently in order to transmit frames.
* Downlink and uplink frames can be transmitted simultaneously over the multiple links.

[Motion 20, [5] and [144]]

***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.***

***TGbe editor: Add new a subclause 33.x.y.1 (General), 33.x.y.2 (Simultaneous transmission and reception (STR)) under clause 33 as follows:***

33. Extreme High Throughput (EHT) MAC specification

33.x. Multi-link operation

33.x.y. Multi-link channel access

33.x.y.1. General

Multi-link channel access shall allow the STAs affiliated with an MLD perform medium access over their corresponding links independently, unless explicitly stated.

33.x.y.2. Simultaneous transmission and reception (STR)

While an STA of an MLD capable of supporting simultaneous transmission and reception (STR) over a set of links transmits a frame on a link in the set of links, another STA of the MLD can perfrom CCA, medium access, or receive a frame on another link in the set of links, simultaneously.

If an STA of an MLD capable of supporting STR over a set of links transmits a frame to another MLD not capable of supporting STR over the set of links, the STA shall follow the rules defined in 33.x.y.3 (General: Non-STR), 33.x.y.5. (PPDU ending time alignment), and TBD.

Figure 33-x shows a channel access between two STR MLDs on two links. When an STR AP MLD setups link 1 and link 2 with an STR non-AP MLD, while AP 2 receives a data frame from STA 2 on link 2, AP 1 can transmit a data frame to STA 1 on link 1.

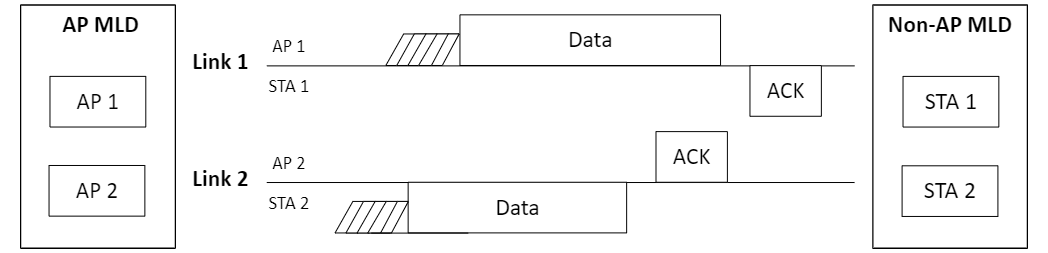


Figure 33-x. Channel access of STR MLD