IEEE P802.11
Wireless LANs

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| EMLSR link change with AP MLD's link enablement/disablement operation |
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Abstract

This submission proposes to resolve issue of EMLSR/EMLMR link change operation related with link disablement/enablement operation related with CID 16310

## Related Comment

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| **CID** | **Commeter** | **Subclause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 16310 | Juseong Moon | 35.3.7.3.2 | 523.54 | When a link is disbled/enabled by an AP MLD, EMLSR/EMLMR operation of associated non-AP MLD related to the disabled/enabled link shall be clarifyed. When one or more links in the multi-link are disabled, the EMLSR/EMLMR operation of the non-AP MLD that is related to the disabled link(s) can be automatically modified or disabled. Alternatively, the non-AP MLD can transmit an EML OMN frame to modify or disable the EMLSR/EMLMR operation. Similarly, when a link is re-enabled, the non-AP MLD's EMLSR/EMLMR operation can be automatically enabled or modified, or the non-AP MLD can transmit an EML OMN frame to enable or modify the EMLSR/EMLMR operation. | Please clarify EMLSR/EMLMR operation that may be affected by link disablement/enablement. | Revised |

## Discussions

* Current specification defines link disablement and enablement. However, there are no following operations of EMLSR/EMLMR link change method.





* If a link is disabled by an AP MLD, its associated STA MLDs which is operating in EMLSR/EMLMR mode can:
	+ Change their EMLSR/EMLMR operation mode, when only two or more EMLSR/EMLMR links are remained.
	+ Disable their EMLSR/EMLMR operation mode, when only one EMLSR/EMLMR link is remained.



* If a link is re-enabled by an AP MLD, its associated STA MLDs which operate in EMLSR/EMLMR mode can:
	+ Change their EMLSR/EMLMR operation mode and EMLSR/EMLMR link.
	+ Re-enable their EMLSR/EMLMR operation mode.
* A non-AP MLD which is operating in EMLSR/EMLMR mode can change/disable/re-enable their links with EML OMN frame exchange.

## Proposed Changes to 11be Draft 3.0

35.3.7.3.2 Affiliated AP link disablement

When an AP MLD advertises that a link is disabled for all associated non-AP MLDs, after the time indicated by the Mapping Switch Time field is reached:

***TGbe editor: add the following changes at 524L17 of 11be draft 3.0:***

(#16310)— an EHT non-AP MLD that is operating in EMLSR/EMLMR mode shall modify or disable its EMLSR/EMLMR mode as defined in 35.3.17 (Enahnced multi-link single-radio operation) and 35.3.18 (Enahnced multi-link multi-radio operation).

35.3.7.3.3 Affiliated AP link enablement

When an AP MLD stops advertising that a link is disabled for all associated non-AP MLDs:

***TGbe editor: add the following changes at 525L3 of 11be draft 3.0:***

(#16310)— an EHT non-AP MLD operating in EMLSR/EMLMR mode before link disablement as defined in 35.3.7.3.2 shall modify or re-enable its EMLSR/EMLMR mode as defined in 35.3.17 (Enahnced multi-link single-radio operation) and 35.3.18 (Enahnced multi-link multi-radio operation), when the link(s) that was disabled before is re-enabled.