CLAIMS

1. A communication method, performed by an access point (AP) supporting multi-link (ML) communication, the method comprising:

determining a first message frame, wherein the first message frame comprises a reduced neighbor report (RNR) element in response to a condition related to ML communication being satisfied; and

sending the first message frame on a first link among multiple links.

2. The method according to claim 1, wherein the condition related to ML communication comprises at least one of:

setting an RNR execution primitive for co-located APs working on different links simultaneously or in a time division multiplexing manner to a specific value; or

carrying an ML element in the first message frame.

3. The method according to claim 1, wherein the RNR element comprises an AP beacon interval information identifier on each of other links than the first link among the multiple links.

4. The method according to claim 3, wherein the AP beacon interval information identifier on each of other links is set with reference to a time point when the first message frame is sent on the first link.

5. The method according to claim 1, wherein the first message frame further comprises timing synchronization parameter information, wherein the timing synchronization parameter information is used for timing synchronization of the multiple links.

6. A communication method, performed by a station (STA) supporting multi-link (ML) communication, the method comprising:

receiving a first message frame on a first link among multiple links, wherein the first message frame comprises a reduced neighbor report (RNR) element in response to a condition related to ML communication being satisfied; and

performing a communication operation based on the first message frame.

7. The method according to claim 6, wherein the condition related to ML communication comprises at least one of:

setting an RNR execution primitive for co-located access points (APs) working on different links simultaneously or in a time division multiplexing manner to a specific value; or

carrying an ML element in the first message frame.

8. The method according to claim 6, wherein the RNR element comprises an access point (AP) beacon interval information identifier on each of other links than the first link among the multiple links.

9. The method according to claim 8, wherein the AP beacon interval information identifier on each of other links is set with reference to a time point when the first message frame is sent on the first link.

10. The method according to claim 6, wherein the first message frame further comprises timing synchronization parameter information, wherein the timing synchronization parameter information is used for timing synchronization of the multiple links.

11. An electronic device, comprising a processor, and a memory stored with a computer program executable by the processor, wherein the computer program is executed by the processor, the method according to any one of claims 1 to 5 or any one of claims 6 to 10 is implemented.

12. A non-transitory computer-readable storage medium storing a computer program, wherein when the computer program is executed by a processor, the method according to any one of claims 1 to 5 or any one of claims 6 to 10 is implemented.