CLAIMS:

1. A multi-link communication method, performed by a multi-link access point device, comprising:

sending a first message frame, wherein the first message frame comprises first information about a change in system information of an access point corresponding to at least one link of a plurality of links, the change in the system information comprises a critical update occurring to a basic service set (BSS) parameter, and the first message frame according to the first information is used to indicate a station corresponding to the at least one link to receive a second message frame sent by the multi-link access point device to acquire changed system information;

wherein the first information comprises a first identifier and a second identifier,

the first identifier is configured to indicate the change in the system information on the at least one link of the plurality of links, an increment of a value of the first identifier indicates that the system information of the at least one link of the plurality of links is changed, and

the second identifier corresponds to a plurality of bits, the plurality of bits correspond respectively to the plurality of links, and a value of a bit of the second identifier corresponding to a link of which the system information is changed among the plurality of links is set to a first value.

2. The multi-link communication method of claim 3, wherein the change in the system information is determined on the at least one link of the plurality of links, the first identifier and the second identifier exist in pairs in the first message frame,

wherein the second identifier corresponds to a link with a change in system information.

3. The multi-link communication method of claim 1, wherein a value of a bit of the second identifier corresponding to a link of which the system information is not changed among the plurality of links is set to a second value.

4. The multi-link communication method of claim 1, wherein in a case where system information on a first link is not changed and system information on a second link is changed, and a value of a bit corresponding to the second link among the plurality of bits corresponding to the second identifier is set to the first value, and a value of a bit corresponding to the first link among the plurality of bits corresponding to the second identifier is set a second value.

5. The multi-link communication method of any one of claims 2 to 4, wherein the first information further comprises a multi-link device identifier,

wherein the multi-link device identifier corresponds to a multi-link device to which a link with a change in system information belongs.

6. The multi-link communication method of claim 5, wherein the multi-link device

identifier is a media access control (MAC) address of the multi-link device.

7. The multi-link communication method of claim 5 or 6, wherein the plurality of links comprise a second link corresponding to a first multi-link access point and a second multi-link access point,

wherein in the first multi-link access point, the second link corresponds to a first access point, and in the second multi-link access point, the second link corresponds to a second access point,

wherein the first information comprises a third identifier, which is configured to indicate that a change in system information of the first access point is the same as a change in system information of the second access point.

8. The multi-link communication method of claim 7, wherein the communication method further comprises:

sending a third message frame to carry system information with a same change of the first access point and the second access point.

9. The multi-link communication method of any one of claims 2 to 8, wherein the first information further comprises: a traffic indication map (TIM) element,

wherein a number of TIM elements is related to at least one of a number of links with changes in system information in the plurality of links, or a number of the plurality of links.

10. A multi-link communication method, performed by a multi-link station device, comprising:

receiving a first message frame, wherein the first message frame comprises first information about a change in system information of an access point corresponding to at least one link of a plurality of links, and the change in the system information comprises a critical update occurring to a basic service set (BSS) parameter;

determining a link with a change in system information based on the first message frame; and

receiving a second message frame sent by the multi-link access point device to acquire changed system information, wherein

the first information comprises a first identifier and a second identifier,

the first identifier is configured to indicate the change in the system information on the at least one link of the plurality of links, an increment of a value of the first identifier indicates that the system information of the at least one link of the plurality of links is changed, and

the second identifier corresponds to a plurality of bits, the plurality of bits correspond respectively to the plurality of links, and a value of a bit of the second identifier corresponding

to a link of which the system information is changed among the plurality of links is set to a first value.

11. The multi-link communication method of claim 10, wherein the second identifier corresponds to a link with a change in system information,

wherein determining the link with the change in the system information based on the first message frame comprises determining a link with a change in system information in the plurality of links based on the first identifier and the second identifier existing in pairs in the first message frame.

12. The multi-link communication method of claim 10 or 11, wherein the first information further comprises a multi-link device identifier,

wherein the multi-link device identifier corresponds to a multi-link device to which a link with a change in system information belongs.

13. The multi-link communication method of claim 12, wherein the multi-link device identifier is a media access control (MAC) address of the multi-link device.

14. The multi-link communication method of claim 12, wherein the plurality of links comprises a second link corresponding to a first multi-link access point and a second multi-link access point,

wherein in the first multi-link access point, the second link corresponds to a first access point, and in the second multi-link access point, the second link corresponds to a second access point,

wherein the first information comprises a third identifier, which is configured to indicate that a change in system information of the first access point is the same as a change in system information of the second access point.

15. The multi-link communication method of any one of claims 10 to 13, wherein the first information further comprises a traffic indication map (TIM) element.

16. The multi-link communication method of claim 10, wherein a value of a bit of the second identifier corresponding to a link of which the system information is not changed among the plurality of links is set to a second value.

17. The multi-link communication method of claim 10, wherein in a case where system information on a first link is not changed and system information on a second link is changed, a value of a bit corresponding to the second link among the plurality of bits corresponding to the second identifier is set to the first value, and a value of a bit corresponding to the first link among the plurality of bits corresponding to the second identifier is set a second value.

18. An electronic device, comprising:

a processor, and

a memory storing a computer program executable by the processor,

wherein the processor is configured to implement the method of any one of claims 1 to 11 or any one of claims 10 to 17 when running the computer program.