CLAIMS

What is claimed is:

1. An application context relocation method, wherein the method comprises:

receiving first information from an application function entity, wherein the first information is for indicating to relocate an application context associated with the application function entity; and

when an event that triggers relocation of the application context occurs, determining, based on the first information, to relocate the application context.

2. The method according to claim 1, wherein the method further comprises:

performing one or more of the following operations based on the first information:

detecting an event that triggers relocation of the application context;

discovering a target application function entity, wherein the target application function entity is configured to receive the application context;

transmitting the application context to an edge enabler function entity associated with the target application function entity;

sending information about the target application function entity to a terminal device related to the application function entity; and

sending relocation information of the application context to a core network element, wherein

an application corresponding to the application function entity is the same as an application corresponding to the target application function entity.

~~3. The method according to claim 1 or 2, wherein the receiving first information from an application function entity comprises:~~

~~receiving registration information from the application function entity, wherein the registration information comprises the first information.~~

~~4. The method according to any one of claims 1 to 3, wherein the method further comprises:~~

~~receiving first conditional information from the application function entity, wherein the first conditional information is for indicating a first effective condition of the first information.~~

~~5. The method according to claim 3, wherein the first effective condition comprises any one or more of the following: an effective duration of the first information, an effective time period of the first information, an application client to which the first information is applicable, a relocation~~

~~duration of the application context being less than a preset time threshold, a size of the application context being less than a preset size threshold, or the application function entity being overloaded.~~

~~6. The method according to claim 4 or 5, wherein the method further comprises:~~

~~receiving second conditional information from the application function entity, wherein the second conditional information is for indicating a second effective condition of the first information, and the second effective condition is different from the first effective condition.~~

~~7~~3. The method according to ~~any one of claims 1 to 6~~claim 1 or 2, wherein the method further comprises:

receiving the application context from the application function entity.

~~8~~4. The method according to claim ~~7~~3, wherein before the receiving the application context from the application function entity, the method further comprises:

sending a storage address of the application context to the application function entity.

~~9. The method according to any one of claims 1 to 8, wherein~~

~~the application context comprises identification information, and the identification information is for uniquely identifying the application context.~~5. The method according to any one of claims 1 to 4, wherein the method is performed by an edge enabler function entity.

~~10~~6. An application context relocation method, comprising:

sending first information to an edge enabler function entity, wherein the first information is for indicating to relocate an application context associated with an application function entity; and

receiving response information ~~sent by~~from the edge enabler function entity in response to the first information.

~~11~~7. The method according to claim ~~10~~6, wherein the first information is further for indicating the edge enabler function entity to perform one or more of the following operations:

detecting an event that triggers relocation of the application context;

discovering a target application function entity, wherein the target application function entity is configured to receive the application context;

transmitting the application context to an edge enabler function entity associated with the target application function entity;

sending information about the target application function entity to a terminal device related to the application function entity; and

sending relocation information of the application context to a core network element, wherein

an application corresponding to the application function entity is the same as an application corresponding to the target application function entity.

~~12. The method according to claim 10 or 11, wherein the sending first information to an edge enabler function entity comprises:~~

~~sending registration information to the edge enabler function entity, wherein the registration information comprises the first information.~~

~~13. The method according to any one of claims 10 to 12, wherein the method further comprises:~~

~~sending first conditional information to the edge enabler function entity, wherein the first conditional information is for indicating a first effective condition of the first information.~~

~~14. The method according to claim 13, wherein the first conditional information comprises any one or more of the following: an effective duration of the first information, an effective time period of the first information, an application client on which the first information is effective, a relocation duration of the application context being less than a preset time threshold, a size of the application context being less than a preset size threshold, and the application function entity being overloaded.~~

~~15. The method according to claim 13 or 14, wherein the method further comprises:~~

~~sending second conditional information to the edge enabler function entity, wherein the second conditional information is for indicating a second effective condition of the first information, and the second effective condition is different from the first effective condition.~~

~~16~~8. The method according to ~~any one of claims 10 to 15~~claim 6 or 7, wherein after the sending first information to an edge enabler function entity, the method further comprises:

sending the application context to the edge enabler function entity.

~~1~~9~~7~~. The method according to claim ~~16~~8, wherein before the sending the application context to the edge enabler function entity, the method further comprises:

receiving a storage address of the application context from the edge enabler function entity; and

wherein the sending the application context to the edge enabler function entity comprises:

sending the application context to the ~~edge enabler entity~~edge enabler function entity based on the storage address.

~~18. The method according to any one of claims 10 to 17, wherein~~

~~the application context comprises identification information, and the identification information is for uniquely identifying the application context.~~10. The method according to any

one of claims 6 to 9, wherein the method is performed by an application function entity.

~~19~~11. An application context relocation apparatus, wherein the apparatus comprises:

a communication module, configured to receive first information from an application function entity, wherein the first information is for indicating to relocate an application context associated with the application function entity; and

a processing module, configured to: when an event that triggers relocation of the application context occurs, determine, based on the first information, to relocate the application context.

~~20~~12. The apparatus according to claim ~~19~~11, wherein the processing module is further configured to perform one or more of the following operations based on the first information:

detecting an event that triggers relocation of the application context;

discovering a target application function entity, wherein the target application function entity is configured to receive the application context;

transmitting the application context to an edge enabler function entity associated with the target application function entity;

sending information about the target application function entity to a terminal device related to the application function entity; and

sending relocation information of the application context to a core network element, wherein

an application corresponding to the application function entity is the same as an application corresponding to the target application function entity.

~~21. The apparatus according to claim 19 or 20, wherein the communication module is specifically configured to receive registration information from the application function entity, wherein the registration information comprises the first information.~~

~~22. The apparatus according to any one of claims 19 to 21, wherein the communication module is further configured to receive first conditional information from the application function entity, wherein the first conditional information is for indicating a first effective condition of the first information.~~

~~23. The apparatus according to claim 21, wherein a first effective condition comprises any one or more of the following: an effective duration of the first information, an effective time period of the first information, an application client to which the first information is applicable, a relocation duration of the application context being less than a preset time threshold, a size of the application context being less than a preset size threshold, or the application function entity being~~

~~overloaded.~~

~~24. The apparatus according to claim 22 or 23, wherein the communication module is further configured to receive second conditional information from the application function entity, wherein the second conditional information is for indicating a second effective condition of the first information, and the second effective condition is different from the first effective condition.~~

~~25~~13. The apparatus according to ~~any one of claims 19 to 24~~claim 11 or 12, wherein the communication module is further configured to receive the application context from the application function entity.

~~26~~14. The apparatus according to claim ~~25~~13, wherein before receiving the application context from the application function entity, the communication module is further configured to send a storage address of the application context to the application function entity.

~~27. The apparatus according to any one of claims 19 to 26, wherein the application context comprises identification information, and the identification information is for uniquely identifying the application context.~~

~~28~~15. An application context relocation apparatus, comprising:

a communication module, configured to send first information to an edge enabler function entity, wherein the first information is for indicating to relocate an application context associated with an application function entity, wherein

the communication module is further configured to receive response information ~~sent by~~from the edge enabler function entity in response to the first information.

~~29~~16. The apparatus according to claim ~~28~~15, wherein the first information is further for indicating the edge enabler function entity to perform one or more of the following operations:

detecting an event that triggers relocation of the application context;

discovering a target application function entity, wherein the target application function entity is configured to receive the application context;

transmitting the application context to an edge enabler function entity associated with the target application function entity;

sending information about the target application function entity to a terminal device related to the application function entity; and

sending relocation information of the application context to a core network element, wherein

an application corresponding to the application function entity is the same as an application

corresponding to the target application function entity.

~~30. The apparatus according to claim 28 or 29, wherein the communication module is further configured to send registration information to the edge enabler function entity, wherein the registration information comprises the first information.~~

~~31. The apparatus according to any one of claims 28 to 30, wherein the communication module is further configured to send first conditional information to the edge enabler function entity, wherein the first conditional information is for indicating a first effective condition of the first information.~~

~~32. The apparatus according to claim 31, wherein the first conditional information comprises any one or more of the following: an effective duration of the first information, an effective time period of the first information, an application client on which the first information is effective, a relocation duration of the application context being less than a preset time threshold, a size of the application context being less than a preset size threshold, and the application function entity being overloaded.~~

~~33. The apparatus according to claim 31 or 32, wherein the communication module is further configured to send second conditional information to the edge enabler function entity, wherein the second conditional information is for indicating a second effective condition of the first information, and the second effective condition is different from the first effective condition.~~

~~34~~17. The apparatus according to claim 15 or 16~~any one of claims 28 to 33~~, wherein after sending the first information to the edge enabler function entity, the communication module is further configured to send the application context to the edge enabler function entity.

~~35~~18. The apparatus according to claim ~~34~~17, wherein before sending the application context to the edge enabler function entity, the communication module is further configured to: receive a storage address of the application context from the edge enabler function entity; and wherein the sending the application context to the edge enabler function entity comprises: sending the application context to the ~~edge enabler entity~~edge enabler function entity based on the storage address.

~~36. The apparatus according to any one of claims 28 to 35, wherein the application context comprises identification information, and the identification information is for uniquely identifying the application context.~~

19~~37~~. A communication apparatus, comprising a processor and a memory, wherein

the memory is configured to store a computer program; and

the processor is configured to execute the computer program stored in the memory, to perform the method according to any one of claims 1 to ~~9~~ 5 or the method according to any one of claims ~~10~~ 6 to ~~18~~10.

~~38~~20. A communication apparatus, comprising a processor and an interface circuit, wherein

the interface circuit is configured to receive code instructions and transmit the code instructions to the processor; and

the processor is configured to run the code instructions, to perform the method according to any one of claims 1 to ~~9~~ 5 or the method according to any one of claims 6 to 10~~10 to 18~~.

~~39~~21. A computer-readable storage medium, wherein the computer-readable storage medium stores instructions, and when the instructions are executed, the method according to any one of claims 1 to ~~9~~ 5 or the method according to any one of claims 6 to 10~~10 to 18~~ is implemented.

22. A computer program product, comprising computer program code, wherein when the computer program code is run, the method according to any one of claims 1 to 10 is performed.

23. A communication system, comprising a first communication apparatus according to any one of claims 1 to 5 and a second communication apparatus according to any one of claims 6 to 10.

24. An application context relocation method, wherein the method comprises:

sending, by an application function entity, first information to an edge enabler function entity, wherein the first information is for indicating to relocate an application context associated with an application function entity;

receiving, by the edge enabler function entity, the first information from the application function entity;

when an event that triggers relocation of the application context occurs, determining, by the edge enabler function entity based on the first information, to relocate the application context.

25. The method according to claim 24, wherein the method further comprises:

sending, by the edge enabler function entity in response to the first information, response information to the application function entity;

receiving,by the application function entity, the response information.

26. The method according to claim 24 or 25, wherein the method further comprises:

performing, by the edge enabler function entity, one or more of the following operations based

on the first information:

detecting an event that triggers relocation of the application context;

discovering a target application function entity, wherein the target application function entity is configured to receive the application context;

transmitting the application context to an edge enabler function entity associated with the target application function entity;

sending information about the target application function entity to a terminal device related to the application function entity; and

sending relocation information of the application context to a core network element, wherein an application corresponding to the application function entity is the same as an application corresponding to the target application function entity.

27. The method according to any one of claims 24 to 26, wherein the method further comprises:

sending, by the application function entity, the application context to the edge enabler function entity; and

receiving, by the edge enabler function entity, the application context.

28. The method according to claim 27, wherein the method further comprises:

sending, by the edge enabler function entity, a storage address of the application context to the application function entity;

receiving, by the application function entity, the storage address of the application context from the edge enabler function entity; and

wherein the sending the application context to the edge enabler function entity comprises: sending the application context to the edge enabler function entity based on the storage address.