CLAIMS

1. A communication method, wherein the method is applied to a first terminal device, and the method comprises:

receiving a first message from a first access network device, wherein the first message indicates to hand over the first terminal device to a first cell, and the first cell corresponds to a second access network device;

determining a capability of the first cell based on the first message, wherein the capability of the first cell is whether the first cell supports serving a first type of terminal device, the first terminal device belongs to the first type of terminal device, and the first type of terminal device is a terminal device with a reduced capability; and

determining, based on the capability of the first cell, whether to access the first cell.

2. The method according to claim 1, wherein the determining a capability of the first cell based on the first message comprises:

if the first message carries first information, determining that the first cell supports serving the first type of terminal device; or

if the first message does not carry first information, determining that the first cell does not support serving the first type of terminal device, wherein

the first information indicates that the first cell supports serving the first type of terminal device.

3. The method according to claim 2, wherein the first information comprises at least one of the following:

an intra-frequency reselection indication corresponding to the first type of terminal device;

a cell bar indication corresponding to the first type of terminal device; and

resource configuration information corresponding to the first type of terminal device.

4. The method according to any one of claims 1 to 3, wherein the determining, based on the capability of the first cell, whether to access the first cell comprises:

if the first cell supports serving the first type of terminal device, accessing the first cell; or

if the first cell does not support serving the first type of terminal device, performing a radio resource control RRC connection re-establishment procedure, or establishing an RRC connection to a second cell, wherein an access network device corresponding to the second cell is different from the access network device corresponding to the first cell, or entering an RRC idle state.

5. A communication method, wherein the method is applicable to a second access network device, and the method comprises:

receiving a handover request message from a first access network device; and

sending a handover response message to the first access network device, wherein

if the second access network device supports serving a first type of terminal device, the handover response message carries first information, or if the second access network device does not support serving a first type of terminal device, the handover response message does not carry first information, wherein the first information indicates that the second access network device supports serving the first type of terminal device.

6. The method according to claim 5, wherein the first information comprises at least one of the following:

an intra-frequency reselection indication corresponding to the first type of terminal device;

a cell bar indication corresponding to the first type of terminal device; and

resource configuration information corresponding to the first type of terminal device.

7. The method according to claim 5 or 6, wherein before sending the first information to the first access network device, the method further comprises:

determining that a first terminal device is the first type of terminal device; or

determining that a first terminal device is the first type of terminal device and that a radio access technology standard supported by the first access network device is higher than long term evolution LTE.

8. A communication method, wherein the method is applied to a first terminal device, and the method comprises:

determining, based on system information of a first cell, that the first cell does not support serving a first type of terminal device, wherein the first terminal device belongs to the first type of terminal device; and

performing a radio resource control RRC connection re-establishment procedure, or establishing an RRC connection to a second cell, wherein the first cell and the second cell correspond to different access network devices, or entering an idle state.

9. The method according to claim 8, wherein before the determining, based on system information of a first cell, that the first cell does not support serving a first type of terminal device, the method further comprises:

being handed over from a third cell to the first cell, wherein the third cell and the first cell correspond to different access network devices.

10. The method according to claim 8 or 9, wherein the determining, based on system information of a first cell, that the first cell does not support serving a first type of terminal device comprises:

if the system information comprises first information, determining that the first cell supports serving the first type of terminal device, wherein the first information is information specific to the first type of terminal device; or

if the system information does not comprise first information, determining that the first cell does not support serving the first type of terminal device.

11. The method according to claim 10, wherein the information specific to the first type of terminal device comprises at least one of the following:

an intra-frequency reselection indication corresponding to the first type of terminal device;

a cell bar indication corresponding to the first type of terminal device; and

resource configuration information corresponding to the first type of terminal device.

12. The method according to any one of claims 8 to 11, wherein the first type of terminal device is a terminal device with a reduced capability.

13. A communication apparatus, wherein the apparatus is applied to a first terminal device, and the apparatus comprises:

a communication module, configured to receive a first message from a first access network device, wherein the first message indicates to hand over the first terminal device to a first cell, and the first cell corresponds to a second access network device; and

a processing module, configured to: determine a capability of the first cell based on the first message, wherein the capability of the first cell is whether the first cell supports serving a first type of terminal device, the first terminal device belongs to the first type of terminal device, and the first type of terminal device is a terminal device with a reduced capability; and

determine, based on the capability of the first cell, whether to access the first cell.

14. The apparatus according to claim 13, wherein when determining the capability of the first cell based on the first message, the processing module is specifically configured to:

if the first message carries first information, determine that the first cell supports serving the first type of terminal device; or

if the first message does not carry first information, determine that the first cell does not support serving the first type of terminal device, wherein

the first information indicates that the first cell supports serving the first type of terminal device.

15. The apparatus according to claim 14, wherein the first information comprises at least one of the following:

an intra-frequency reselection indication corresponding to the first type of terminal device;

a cell bar indication corresponding to the first type of terminal device; and

resource configuration information corresponding to the first type of terminal device.

16. The apparatus according to any one of claims 13 to 15, wherein when determining, based on the capability of the first cell, whether to access the first cell, the processing module is specifically configured to:

if the first cell supports serving the first type of terminal device, access the first cell; or

if the first cell does not support serving the first type of terminal device, perform a radio resource control RRC connection re-establishment procedure, or establish an RRC connection to a second cell, wherein an access network device corresponding to the second cell is different from the access network device corresponding to the first cell, or enter an RRC idle state.

17. A communication apparatus, wherein the apparatus is applicable to a second access network device, and the apparatus comprises:

a communication module, configured to communicate with a first access network device; and

a processing module, configured to:

receive a handover request message from the first access network device by using the communication module; and

send a handover response message to the first access network device by using the communication module, wherein

if the second access network device supports serving a first type of terminal device, the handover response message carries first information, or if the second access network device does not support serving a first type of terminal device, the handover response message does not carry first information, wherein the first information indicates that the second access network device supports serving the first type of terminal device.

18. The apparatus according to claim 17, wherein the first information comprises at least one of the following:

an intra-frequency reselection indication corresponding to the first type of terminal device;

a cell bar indication corresponding to the first type of terminal device; and

resource configuration information corresponding to the first type of terminal device.

19. The apparatus according to claim 17 or 18, wherein the processing module is further configured to:

before sending the first information to the first access network device by using the communication module, determine that a first terminal device is the first type of terminal device; or

before sending the first information to the first access network device by using the communication module, determine that a first terminal device is the first type of terminal device and

that a radio access technology standard supported by the first access network device is higher than long term evolution LTE.

20. A communication apparatus, wherein the apparatus is applied to a first terminal device, and the apparatus comprises:

a communication module, configured to receive system information of a first cell; and

a processing module, configured to: determine, based on the system information of the first cell, that the first cell does not support serving a first type of terminal device, wherein the first terminal device belongs to the first type of terminal device; and

perform a radio resource control RRC connection re-establishment procedure, or establish an RRC connection to a second cell, wherein the first cell and the second cell correspond to different access network devices, or enter an idle state.

21. The apparatus according to claim 20, wherein the processing module is further configured to:

before determining, based on the system information of the first cell, that the first cell does not support serving the first type of terminal device, be handed over from a third cell to the first cell, wherein the third cell and the first cell correspond to different access network devices.

22. The apparatus according to claim 20 or 21, wherein when determining, based on the system information of the first cell, that the first cell does not support serving the first type of terminal device, the processing module is specifically configured to:

if the system information comprises first information, determine that the first cell supports serving the first type of terminal device, wherein the first information is information specific to the first type of terminal device; or

if the system information does not comprise first information, determine that the first cell does not support serving the first type of terminal device.

23. The apparatus according to claim 22, wherein the information specific to the first type of terminal device comprises at least one of the following:

an intra-frequency reselection indication corresponding to the first type of terminal device;

a cell bar indication corresponding to the first type of terminal device; and

resource configuration information corresponding to the first type of terminal device.

24. The apparatus according to any one of claims 20 to 22, wherein the first type of terminal device is a terminal device with a reduced capability.

25. A computer-readable storage medium, wherein the computer-readable storage medium is configured to store computer instructions, and when the computer instructions are run on a computer,

the computer is enabled to perform the method according to any one of claims 1 to 12.

26. A computer program product, wherein when the computer program product is run on a device, the device is enabled to perform the method according to any one of claims 1 to 12.