

CLAIMS

What is claimed is:

1. A wireless communications method, comprising:

determining, by a first network device in a first system, a registration mode, and/or a supported registration mode of a terminal device, and/or the support for interoperations with an N26 interface or without an N26 interface by the first system, wherein the registration mode is a single registration (SR) mode of registration with a single system or a dual registration (DR) mode of registration with dual systems, and a first cell in the first system is accessed by the terminal device; and

determining, by the first network device according to the registration mode, and/or the supported registration mode of the terminal device, and/or the support for interoperations with an N26 interface or without an N26 interface by the first system, a handover procedure or a redirection procedure ~~a procedure that is allowed or not allowed~~ to be performed for the terminal device to access a second cell in a second system.

2. The method according to claim 1, wherein the supported registration mode of the terminal device is the DR mode.

3. The method according to claim 1 or 2, wherein a handover ID is carried by a packet data network connection request parameter in an Attach request in the second system ~~the DR mode is configured with a capability that the terminal device adds a handover flag in a packet data network connection request parameter in an Attach request in the second system~~.

4. The method according to claim 1, wherein when the registration mode of the terminal device is an SR mode, the procedure that needs to be performed is a-the handover procedure or thea redirection procedure.

5. The method according to claim 4, wherein when the terminal device keeps a connected state with the first cell, and an N26 interface is supported between the first system and the second system, the procedure that needs to be performed is the a-handover

~~redirection~~ procedure; or

when the terminal device keeps a connected state with the first cell, and the first system supports interoperations without an N26 interface, the procedure that needs to be performed is ~~the a-handover redirection~~ procedure.

5 6. The method according to claim 5, wherein if the terminal device recognizes indication information that is sent by ~~the first network device~~~~a-network-side~~ and is used to indicate that ~~the first network device~~~~the-network-side~~ supports a handover without an N26 interface, the terminal device sends an attach request message to the ~~first network device~~~~network-side~~ after performing ~~a-triggered~~~~the~~ redirection procedure; or

10 if the terminal device does not recognize or does not receive indication information that is sent by ~~the first network device~~~~a-network-side~~ and is used to indicate that ~~the first network device~~~~the-network-side~~ supports a handover without an N26 interface, the terminal device sends a location update (tracking area update, TAU) request message after performing ~~a-triggered~~~~the~~ redirection procedure.

15 7. The method according to any one of claims 1 to 6, wherein the first network device is a core network device.

20 8. The method according to any one of claims 1-~~7~~~~6~~, wherein the first network device is an access network device, and the support for interoperations with an N26 interface or without an N26 interface by the first system is determined by the access network device based on preset information.

9. The method according to any one of claims 1 to 8, wherein the first system is a 5-th generation system (5GS), and the second system is a Long Term Evolution (LTE) system.

10. A network device, wherein the network device is in a first system, and comprises a first determining unit and a second determining unit, wherein

25 the first determining unit is configured to determine a registration mode and ~~or~~ a supported registration mode of a terminal device, and ~~or~~ the support for interoperations with an N26 interface or without an N26 interface by the first system, wherein the registration mode is a single registration (SR) mode of registration with a single system or a

dual registration (DR) mode of registration with dual systems, and a first cell in the first system is accessed by the terminal device; and

the second determining unit is configured to determine, according to the registration mode and ~~for~~ the supported registration mode of the terminal device, and ~~for~~ the support for interoperations with an N26 interface or without an N26 interface by the first system, a handover procedure or a redirection procedure~~a procedure that is allowed or not allowed~~ to be performed for the terminal device to access a second cell in a second system.

11. The device according to claim 10, wherein the supported registration mode of the terminal device is the DR mode.

12. The device according to claim 10 or 11, wherein a handover ID is carried by a packet data network connection request parameter in an Attach request in the second system~~the DR mode is configured with a capability that the terminal device adds a handover flag in a packet data network connection request parameter in an Attach request in the second system.~~

13. The device according to claim 10, wherein when the registration mode of the terminal device is an SR mode, the procedure that needs to be performed is a-the handover procedure or a-the redirection procedure.

14. The device according to claim 13, wherein when the terminal device keeps a connected state with the first cell, and an N26 interface is supported between the first system and the second system, the procedure that needs to be performed is a-the handover redirection~~redirection~~ procedure; or

when the terminal device keeps a connected state with the first cell, and the first system supports interoperations without an N26 interface, the procedure that needs to be performed is a-the handover~~redirection~~ procedure.

15. The device according to claim 14, wherein if the terminal device recognizes indication information that is sent by the first network device~~a network-side~~ and is used to indicate that the first network device~~network-side~~ supports a handover without an N26 interface, the terminal device sends an attach request message to the first network

~~device~~~~network-side~~ after performing ~~a triggered~~~~the~~ redirection procedure; or

if the terminal device does not recognize or does not receive indication information that is sent by ~~the first network device~~~~a network-side~~ and is used to indicate that the ~~first network device~~~~network-side~~ supports a handover without an N26 interface, the terminal device sends a location update (tracking area update, TAU) request message after performing ~~the a triggered~~ redirection procedure.

16. The device according to any one of claims 10 to 15, wherein the network device is a core network device.

17. The device according to any one of claims 10 to 16, wherein the first system is a 5-th generation system (5GS), and the second system is a Long Term Evolution (LTE) system; or

the first system is an LTE system, and the second system is a 5GS.

18. A wireless communications method, comprising:

sending, by a terminal device, to a first network device a registration request in a first system, wherein ~~a first capability parameter is added in~~ the registration request ~~and~~ indicates that the terminal device has a capability to add a handover flag in a packet data network connection request parameter in an Attach request in a second system.

19. The wireless communications method according to claim 18, wherein the ~~registration request~~~~first capability parameter~~ is used for determining a ~~handover procedure or a redirection procedure~~~~procedure allowed or not allowed~~ to be performed for the terminal device accessing from a first cell in the first system to a second cell in the second system.

~~20. The wireless communications method according to claim 18 or 19, wherein the procedure comprises redirection or handover procedure.~~

~~21~~~~20~~. The wireless communications method according to claim ~~20~~~~19~~, wherein the first system is a 5-th generation system, 5GS, comprising a 5G core network, and the second system is a 4G system comprising an Evolved Packet Core network.

2221. A terminal device, comprising:

a communication unit, configured to send to a first network device a registration request in a first system, wherein ~~a first capability parameter is added in~~ the registration request ~~and~~ indicates that the terminal device has a capability to add a handover flag in a packet data network connection request parameter in an Attach request in a second system.

2322. The terminal device according to claim 2221, wherein the registration request ~~first capability parameter~~ is used for determining a handover procedure or a redirection procedure ~~a procedure allowed or not allowed~~ to be performed for the terminal device accessing from a first cell in the first system to a second cell in an Attach request in a second system.

~~24. The terminal device according to claim 22 or 23, wherein the procedure comprises redirection or handover procedure.~~

2523. The terminal device according to claim 2422, wherein the first system is a 5-th generation system, 5GS, comprising a 5G core network, and the second system is a 4G system comprising an Evolved Packet Core network.