CLAIMS

1. A capability control method ~~for~~ performed by a communications device, the method comprising:

determining whether a predetermined condition has been met, wherein the predetermined condition comprises at least one of a condition where a terminal capability changes, a condition where a terminal position changes, a condition where a card in a terminal is deleted, a condition where a card is newly added in the terminal, and a condition where the terminal does not support capability signaling optimization after the position has changed; and

when the predetermined condition has been met, performing a first related operation of the terminal capability,

wherein the performing the first related operation of the terminal capability comprises transmitting terminal capability change information; and

the terminal capability change information comprises second capability identifier, and the second capability identifier is capability identifier that is mapped to the terminal capabilities after the change, and the terminal capabilities after the change are a group of terminal capabilities or all the terminal capabilities.

2. The method according to claim 1, wherein the performing the first related operation of the terminal capability further comprises at least one of performing an operation on terminal capability identifier information and transmitting first information,

wherein the first information comprises at least one of ~~terminal capability change information,~~ terminal position change information, terminal capability information, indication information about the terminal capability identifier information, and operation information about the terminal capability identifier information.

3. The method according to claim 2, wherein the preforming the operation on the terminal capability identifier information comprises at least one of changing the terminal capability identifier information, deleting the terminal capability identifier information, and setting the terminal capability identifier information as invalid.

4. The method according to claim 3, wherein the changing the terminal capability identifier information comprises changing ~~first capability identifier information~~first capability identifier as ~~second capability identifier information~~second capability identifier,

wherein the ~~first capability identifier information~~first capability identifier is capability identifier information mapped to the terminal capability before the change~~, and the second capability identifier information is capability identifier information mapped to the terminal capability after the change~~.

5. The method according to claim 2, wherein the indication information about the terminal capability identifier information comprises at least one of indication information indicating whether a terminal capability identifier is invalid, indication information indicating whether the terminal capability identifier is to be deleted, indication information indicating whether the terminal capability identifier is to be suspended, indication information indicating whether the terminal capability identifier is to be recovered, indication information indicating whether the terminal capability identifier is requested to be changed, and indication information indicating whether the terminal capability identifier is requested to be allocated.

6. The method according to claim 2, wherein the operation information about the terminal capability identifier information comprises at least one of disabled capability identifier information, invalid capability identifier information, deleted capability identifier information, suspended capability identifier information, newly-added capability identifier information and recovered capability identifier information.

7. The method according to claim 2, wherein the terminal position change information comprises indication information indicating whether a terminal position changes, an identifier of a first terminal, and an identifier of a second terminal.

8. The method according to claim 2, wherein the terminal capability change information further comprises at least one of capability change indication information, capability change type information, capability variable information, and ~~first capability identifier information~~first capability identifier~~ and second capability identifier information~~.

9. The method according to claim 8, wherein the capability variable information comprises at least one of capability identifier information about a capability variable, capability information about a capability which has changed, capability information about a newly-added capability, capability information about a disabled capability, capability identifier information about a capability before the change, capability identifier information about a capability after the

change, capability identifier information about the newly-added capability, and capability identifier information about the disabled capability.

~~10. A capability control method for a communications device, comprising:~~

~~receiving request information for acquiring a capability variable; and~~

~~transmitting capability variable information in accordance with the request information for acquiring the capability variable.~~

~~11. The method according to claim 10, wherein the request information for acquiring the capability variable comprises at least one of first capability identifier information, second capability identifier information, indication information indicating whether capability information about the capability variable is to be acquired, indication information indicating whether capability identifier information about the capability variable is to be acquired, and type information about the capability variable.~~

~~12. The method according to claim 10, wherein the capability variable information comprises at least one of capability identifier information about the capability variable, changed capability information, newly added capability information, disabled capability information, capability identifier information about a capability before the change, capability identifier information about a capability after the change, capability identifier information about a newly added capability, and capability identifier information about a disabled capability.~~

~~13~~10. A capability control method ~~for~~ performed by a network-side network element, the method comprising:

acquiring first information, wherein the first information comprises at least one of terminal capability change information, terminal position change information, terminal capability information, indication information about terminal capability identifier information, and operation information about the terminal capability identifier information; and

performing a second related operation of a terminal capability in accordance with the first information,

the performing the second related operation of the terminal capability comprises at least one of:

changing the terminal capability identifier; or

allocating capability identifier for changed terminal capabilities,

wherein the capability identifier for the changed terminal capabilities are a group of terminal capabilities or all the terminal capabilities.

~~14~~11. The method according to claim ~~13~~10, wherein the terminal capability identifier information comprises at least one of terminal type information, capability indication assistance information, capability identifier application scope information and a terminal capability identifier.

~~15~~12. The method according to claim ~~13~~10, wherein the indication information about the terminal capability identifier information comprises at least one of indication information indicating whether the terminal capability identifier is invalid, indication information indicating whether the terminal capability identifier is to be deleted, indication information indicating whether the terminal capability identifier is to be suspended, indication information indicating whether the terminal capability identifier is to be recovered, indication information indicating whether the terminal capability identifier is requested to be changed, and indication information indicating whether the terminal capability identifier is requested to be allocated.

~~16~~13. The method according to claim ~~13~~10, wherein the operation information about the terminal capability identifier information comprises at least one of disabled capability identifier information, invalid capability identifier information, deleted capability identifier information, suspended capability identifier information, newly-added capability identifier information and recovered capability identifier information.

~~17~~14. The method according to claim ~~13~~10, wherein the terminal capability change information comprises at least one of capability change indication information, capability change type information, capability variable information, first capability identifier~~first capability identifier information~~ and second capability identifier~~second capability identifier information~~.

~~18~~15. The method according to claim ~~17~~14, wherein the capability variable information comprises at least one of capability identifier information about a capability variable, changed capability information, newly-added capability information, disabled capability information, capability identifier information about a capability before the change, capability identifier information about a capability after the change, capability identifier information about a newly-added capability, and capability identifier information about a disabled capability.

~~19~~16. The method according to claim ~~18~~15, wherein the capability information comprises capability type information.

~~20~~17. The method according to claim ~~19~~16, wherein the capability type information comprises at least one of network type information about a capability, serving network information about the capability, card slot information about the capability, and card information about the capability.

~~21~~18. The method according to claim ~~13~~10, wherein the performing the second related operation of the terminal capability further comprises at least one of:

~~changing the terminal capability identifier information;~~

deleting or suspending the terminal capability identifier information;

storing newly-added terminal capability identifier information;

recovering the terminal capability identifier information;

~~allocating capability identifier information for a changed terminal capability;~~

allocating capability identifier information for a capability variable;

storing the first information;

transmitting the first information to a first target end;

deducing or mapping the terminal capability;

changing the terminal capability;

changing ~~first capability identifier information~~first capability identifier in a terminal context as ~~second capability identifier information~~second capability identifier;

transmitting request information for acquiring the terminal capability to a second target end; and

transmitting request information for acquiring the terminal capability to a third target end.

~~22~~19. The method according to claim ~~21~~18, wherein the changing the terminal capability identifier information comprises changing the terminal capability identifier information in accordance with at least one of indication information about the terminal capability identifier information and operation information about the terminal capability identifier information; and/or

the deleting or suspending the terminal capability identifier information comprises deleting or suspending the terminal capability identifier information in accordance with at least one of indication information indicating that a terminal capability identifier is invalid, indication information indicating that the terminal capability identifier is to be deleted, invalid capability

identifier information, deleted capability identifier information, terminal position change information and terminal capability change information; and/or

the recovering the terminal capability identifier information comprises recovering the terminal capability identifier information in accordance with at least one of indication information indicating that the terminal capability identifier is to be recovered, the terminal position change information and the terminal capability change information; and/or

the deducing or mapping the terminal capability comprises deducing or mapping the terminal capability in accordance with at least one of the ~~second capability identifier information~~second capability identifier, the indication information about the terminal capability identifier information and the operation information about the terminal capability identifier information; and/or

the changing the terminal capability comprises changing the terminal capability in accordance with at least one of capability variable information and a terminal capability mapped to the ~~second capability identifier information~~second capability identifier.

~~23. A capability control method for a network-side network element, comprising:~~

~~acquiring second information, wherein the second information comprises at least one of indication information indicating that a terminal does not support capability signaling optimization, de-registration request information and registration request information; and~~

~~performing a third related operation of a terminal capability in accordance with the second information.~~

~~24. The method according to claim 23, wherein the acquiring the second information comprises acquiring the indication information indicating the terminal does not support the capability signaling optimization in accordance with at least one of a condition where a terminal position changes and a condition where indication information about the capability signaling optimization fails to be received.~~

~~25. The method according to claim 23, wherein the performing the third related operation of the terminal capability comprises at least one of:~~

~~changing a capability signaling optimization capability of the terminal;~~

~~deleting or suspending terminal capability identifier information;~~

~~transmitting the second information to a fourth target end; and~~

~~transmitting request information for acquiring a terminal capability to a fifth target end.~~

~~26~~20. A communications device, comprising:

a determination module configured to determine whether a predetermined condition has been met, wherein the predetermined condition comprises at least one of a condition where a terminal capability changes, a condition where a terminal position changes, a condition where a card in the terminal is deleted, a condition where a card is newly added in the terminal, and a condition where the terminal does not support capability signaling optimization after the position has changed; and

a first execution module configured to, when the predetermined condition has been met, perform a first related operation of the terminal capability,

wherein the first execution module is further configured to transmit terminal capability change information; and

the terminal capability change information comprises second capability identifier, and the second capability identifier is capability identifier that is mapped to the terminal capabilities after the change, and the terminal capabilities after the change are a group of terminal capabilities or all the terminal capabilities.

~~27. A communications device, comprising:~~

~~a reception module configured to receive request information for acquiring a capability variable; and~~

~~a transmission module configured to transmit capability variable information in accordance with the request information for acquiring the capability variable.~~

~~28~~21. A network-side network element, comprising:

a first acquisition module configured to acquire first information, wherein the first information comprises at least one of terminal capability change information, terminal position change information, terminal capability information, indication information about terminal capability identifier information, and operation information about the terminal capability identifier information; and

a second execution module configured to perform a second related operation of a terminal capability in accordance with the first information,

the second execution module is further configured to perform at least one of:

changing the terminal capability identifier; or

allocating capability identifier for changed terminal capabilities,

wherein the capability identifier for the changed terminal capabilities are a group of terminal capabilities or all the terminal capabilities.

~~29. A network-side network element, comprising:~~

~~a second acquisition module configured to acquire second information, wherein the second information comprises at least one of indication information indicating that the terminal does not support capability signaling optimization, de-registration request information and registration request information; and~~

~~a third execution module configured to perform a third related operation of a terminal capability in accordance with the second information.~~

~~30~~22. A communications device, comprising a memory, a processor, and a computer program stored in the memory and executed by the processor, wherein the computer program is executed by the processor so as to implement the steps of the capability control method according to any one of claims 1 to ~~12~~9, or implement the steps of the capability control method according to any one of claims ~~13~~ 10 to ~~25~~19.

~~31~~23. A computer-readable storage medium storing therein a computer program, wherein the computer program is executed by a processor so as to implement the steps of the capability control method according to any one of claims 1 to ~~12~~9, or implement the steps of the capability control method according to any one of claims ~~13~~ 10 to ~~25~~19.