CLAIMS

1. A terminal capability identifier operation method, performed by a first communications device that is a communications network element, wherein the method comprises:

performing a first operation related to terminal capability identifier, wherein the first operation related to terminal capability identifier comprises at least one of the following:

deleting or suspending a network-allocated terminal capability identifier;

changing a first-type terminal capability identifier in a terminal context to a second-type terminal capability identifier; and

transmitting operation information of terminal capability identifier,

wherein the operation information of terminal capability identifier comprises at least one of the following:

indication information indicating deleting or suspending the network-allocated terminal capability identifier;

a terminal capability identifier requested to be deleted or suspended;

first indication information, wherein the first indication information indicates changing the first-type terminal capability identifier in the terminal context to the second-type terminal capability identifier;

second indication information, wherein the second indication information indicates transmitting the second-type terminal capability identifier when a terminal capability identifier needs to be transmitted;

wherein the first-type terminal capability identifier is a network-allocated terminal capability identifier and the second-type terminal capability identifier is a terminal-manufacturer-related terminal capability identifier.

2. The method according to claim 1, wherein the operation information of terminal capability identifier also comprises at least one of the following:

network identification information, wherein the network is an updated network to which a terminal capability identifier is applicable;

network identification information, wherein the network is a newly-added network to which a terminal capability identifier is applicable; and

network identification information, wherein the network is a network to which a terminal capability identifier is not applicable.

3. The method according to claim 1, wherein the communications network element is a core network element.

4. The method according to claim 1, wherein when a first condition is met, the first operation related to terminal capability identifier is performed; and the first condition comprises at least one of the following:

a network-related terminal capability identifier has been configured for a terminal;

a terminal capability set mapped to a terminal-manufacturer-related terminal capability identifier is obtained;

a mapping relationship between a terminal-manufacturer-related terminal capability identifier and a terminal capability set is obtained, and the terminal capability set is consistent with a current capability of the terminal; and

a terminal-manufacturer-related terminal capability identifier mapped to a current capability of the terminal is obtained; wherein

the current capability of the terminal is a terminal capability set of the terminal in a first network.

5. The method according to claim 1, wherein

if the operation information of terminal capability identifier comprises at least one of the following: indication information indicating suspending a terminal capability identifier and a terminal capability identifier requested to be suspended,

after the transmitting the operation information of terminal capability identifier, the following is further comprised: transmitting restoring operation information of terminal capability identifier, wherein the restoring operation information of terminal

capability identifier is used for restoring a suspended terminal capability identifier; and

the restoring operation information of terminal capability identifier comprises at least one of the following: indication information indicating restoring a terminal capability identifier and a terminal capability identifier requested to be restored.

6. The method according to claim 1, wherein before the performing a first operation related to terminal capability identifier, the following is further comprised:

if a second condition is met, transmitting request information, wherein the request information comprises at least one of the following: type information of terminal capability identifier, first request information, request information for a terminal-manufacturer-related terminal capability identifier, and enquiry information about whether a terminal-manufacturer-related terminal capability identifier is present; wherein

the type information of terminal capability identifier is used for obtaining a terminal capability identifier conforming to the type information;

the first request information is used to request all types of terminal capability identifiers, and the terminal capability identifier is a terminal capability identifier mapped to a current capability of a terminal; and

the second condition comprises that no terminal-manufacturer-related terminal capability identifier is present.

7. The method according to claim 6, wherein

the terminal capability identifier is a terminal capability identifier mapped to a current capability of the terminal; and

the current capability of the terminal is a terminal capability set of the terminal in a first network;

and/or,

wherein the type of terminal capability identifier comprises at least one of the following: a terminal-manufacturer-related terminal capability identifier type and a network-related terminal capability identifier type.

8. A terminal capability identifier operation method, performed by a second communications device that is a terminal, wherein the method comprises:

receiving operation information of terminal capability identifier, wherein the operation information of terminal capability identifier comprises at least one of the following:

indication information indicating deleting or suspending a network-allocated terminal capability identifier;

a terminal capability identifier requested to be deleted or suspended;

first indication information, wherein the first indication information indicates changing a first-type terminal capability identifier in a terminal context to a second-type terminal capability identifier;

second indication information, wherein the second indication information indicates transmitting a second-type terminal capability identifier when a terminal capability identifier needs to be transmitted; and

performing a second operation related to terminal capability identifier based on the operation information of terminal capability identifier,

wherein the first-type terminal capability identifier is a network-allocated terminal capability identifier and the second-type terminal capability identifier is a terminal-manufacturer-related terminal capability identifier.

9. The method according to claim 8, wherein the operation information of terminal capability identifier also comprises at least one of the following:

network identification information, wherein the network is an updated network to which a terminal capability identifier is applicable;

network identification information, wherein the network is a newly-added network to which a terminal capability identifier is applicable; and

network identification information, wherein the network is a network to which a terminal capability identifier is not applicable.

10. The method according to claim 8, wherein the performing a second operation related to terminal capability identifier based on the operation information of terminal capability identifier comprises:

if a third condition is met, performing the second operation related to terminal capability identifier based on the operation information of terminal capability identifier; wherein

the third condition comprises at least one of the following:

the terminal enters an idle state;

the terminal enters a connected state again after being in an idle state;

the terminal is detached from a first network;

the terminal is deregistered from a first network;

the terminal initially registers with a first network; and

the terminal is initially attached to a first network.

11. The method according to claim 8, wherein the performing a second operation related to terminal capability identifier based on the operation information of terminal capability identifier comprises at least one of the following:

performing a corresponding operation on a network-related terminal capability identifier based on the operation information of terminal capability identifier;

performing a corresponding operation on a terminal-manufacturer-related terminal capability identifier based on the operation information of terminal capability identifier;

transmitting a terminal-manufacturer-related terminal capability identifier;

transmitting a second-type terminal capability identifier; and

updating a network to a network-related terminal capability identifier is applicable.

12. The method according to claim 8, wherein

if the operation information of terminal capability identifier comprises a terminal capability identifier requested to be deleted or suspended, the performing a second operation related to terminal capability identifier based on the operation information of terminal capability identifier comprises: deleting or suspending the terminal capability identifier that is indicated by the operation information of terminal capability identifier;

if the operation information of terminal capability identifier comprises first indication information, the performing a second operation related to terminal capability identifier based on the operation information of terminal capability identifier comprises: changing a first-type terminal capability identifier in a terminal context to a second-type terminal capability identifier; and

if the operation information of terminal capability identifier comprises second indication information, the performing a second operation related to terminal capability identifier based on the operation information of terminal capability identifier comprises: transmitting a second-type terminal capability identifier when a terminal capability identifier needs to be transmitted.

13. The method according to claim 11, wherein

if the operation information of terminal capability identifier comprises indication information indicating deleting or suspending a terminal capability identifier,

the performing a corresponding operation on a network-related terminal capability identifier based on the operation information of terminal capability identifier comprises at least one of the following: deleting or suspending a network-related terminal capability identifier, and deleting or suspending related information of a network to which a network-related terminal capability identifier is applicable.

14. The method according to claim 11, wherein

if the operation information of terminal capability identifier comprises: network identification information, and the network is an updated network to which a terminal capability identifier is applicable, the performing a corresponding operation on a network-related terminal capability identifier based on the operation information of terminal capability identifier comprises: updating, based on the network identification information, a network to which the network-related terminal capability identifier is applicable;

if the operation information of terminal capability identifier comprises: network identification information, and the network is a newly-added network to which a

terminal capability identifier is applicable, the performing a corresponding operation on a network-related terminal capability identifier based on the operation information of terminal capability identifier comprises: adding the network identification information to networks to which the network-related terminal capability identifier is applicable; and

if the operation information of terminal capability identifier comprises: network identification information, and the network is a network to which a terminal capability identifier is not applicable, the performing a corresponding operation on a network-related terminal capability identifier based on the operation information of terminal capability identifier comprises: deleting the network identification information from networks to the network-related terminal capability identifier is applicable.

15. The method according to claim 8, wherein

after the receiving operation information of terminal capability identifier, the following is further comprised: receiving restoring operation information of terminal capability identifier, wherein the restoring operation information of terminal capability identifier is used for restoring a suspended terminal capability identifier; and

the restoring operation information of terminal capability identifier comprises at least one of the following: indication information indicating restoring a terminal capability identifier and a terminal capability identifier requested to be restored.

16. The method according to claim 8, wherein

before the receiving operation information of terminal capability identifier, the following is further comprised:

receiving request information, wherein the request information comprises at least one of the following: type information of terminal capability identifier, first request information, request information for a terminal-manufacturer-related terminal capability identifier, and enquiry information about whether a terminal-manufacturer-related terminal capability identifier is present; wherein the type information of terminal capability identifier is used for obtaining a terminal

capability identifier conforming to the type information; and the first request information is used to request all types of terminal capability identifiers, and the terminal capability identifier is a terminal capability identifier mapped to a current capability of a terminal; and

transmitting related information of terminal capability identifier based on the request information.

17. The method according to claim 16, wherein

the terminal capability identifier is a terminal capability identifier mapped to a current capability of the terminal; and

the current capability of the terminal is a terminal capability set of the terminal in a first network;

and/or,

wherein

the type of terminal capability identifier comprises at least one of the following: a terminal-manufacturer-related terminal capability identifier type and a network-related terminal capability identifier type.

18. The method according to claim 16, wherein

if the request information comprises type information of terminal capability identifier,

the related information of terminal capability identifier comprises: a terminal capability identifier conforming to the type information;

and/or,

if the request information comprises request information for a terminal-manufacturer-related terminal capability identifier;

the related information of terminal capability identifier comprises at least one of the following: a terminal-manufacturer-related terminal capability identifier, indication information that a terminal-manufacturer-related terminal capability identifier is present, or indication information that no terminal-manufacturer-related terminal capability identifier is present;

and/or,

if the request information comprises enquiry information about whether a terminal-manufacturer-related terminal capability identifier is present;

the related information of terminal capability identifier comprises: indication information that a terminal-manufacturer-related terminal capability identifier is present, or indication information that no terminal-manufacturer-related terminal capability identifier is present;

and/or,

if the request information comprises first request information;

the related information of terminal capability identifier comprises: all types of terminal capability identifiers corresponding to the current capability of the terminal.

19. A communications device, wherein the communications device is a communications network element, and comprises:

an execution module, configured to perform a first operation related to terminal capability identifier, wherein the first operation related to terminal capability identifier comprises at least one of the following:

deleting or suspending a network-allocated terminal capability identifier;

changing a first-type terminal capability identifier in a terminal context to a second-type terminal capability identifier; and

transmitting operation information of terminal capability identifier,

wherein the operation information of terminal capability identifier comprises at least one of the following:

indication information indicating deleting or suspending the network-allocated terminal capability identifier;

a terminal capability identifier requested to be deleted or suspended;

first indication information, wherein the first indication information indicates changing the first-type terminal capability identifier in the terminal context to the second-type terminal capability identifier;

second indication information, wherein the second indication information indicates transmitting the second-type terminal capability identifier when a terminal capability identifier needs to be transmitted;

wherein the first-type terminal capability identifier is a network-allocated terminal capability identifier and the second-type terminal capability identifier is a terminal-manufacturer-related terminal capability identifier.

20. A communications device, wherein the communications device is a terminal, and comprises:

a first receiving module, configured to receive operation information of terminal capability identifier, wherein the operation information of terminal capability identifier comprises at least one of the following:

indication information indicating deleting or suspending a network-allocated terminal capability identifier;

a terminal capability identifier requested to be deleted or suspended;

first indication information, wherein the first indication information indicates changing a first-type terminal capability identifier in a terminal context to a second-type terminal capability identifier, wherein the first-type terminal capability identifier is a network-allocated terminal capability identifier and the second-type terminal capability identifier is a terminal-manufacturer-related terminal capability identifier type;

second indication information, wherein the second indication information indicates transmitting a second-type terminal capability identifier when a terminal capability identifier needs to be transmitted; and

an execution module, configured to perform a second operation related to terminal capability identifier based on the operation information of terminal capability identifier,

wherein the first-type terminal capability identifier is a network-allocated terminal capability identifier and the second-type terminal capability identifier is a terminal-manufacturer-related terminal capability identifier.