CLAIMS

1. An information transmission method, applied to a network device, comprising:

sending network slice-related information to a terminal, the network slice-related information comprising at least one of:

first information, the first information indicating a network slice supported by a first cell;

second information, the second information representing a correspondence between the network slice and a frequency;

third information, the ~~second~~third information representing a correspondence between the network slice and a cell; or

fourth information, the fourth information representing a correspondence between the network slice and a cell access parameter,

wherein in the first information, the second information, the third information and the fourth information, an identifier of the network slice is processed by one of:

the identifier of the network slice being encrypted by using a key;

the identifier of the network slice being truncated; or

the identifier of the network slice being mapped.

2. The method of claim 1, wherein the network slice-related information is sent to the terminal in a broadcast manner.

3. The method of claim 1, further comprising:

when the identifier of the network slice is encrypted by using the key, sending the

key to the terminal in a unicast manner.

4. The method of claim 1, further comprising:

encrypting fifth information by using the key, the fifth information comprising dedicated information sent by a network side to the terminal; and

sending the encrypted fifth information to the terminal.

5. The method of claim 1, wherein the key is valid in a current registered region.

6. The method of claim 1, further comprising:

when the identifier of the network slice is truncated, sending sixth information to the terminal, the sixth information indicating that the identifier of the network slice in the network slice-related information is truncated, and/or.

~~7. The method of claim 1, further comprising:~~

when the identifier of the network slice is mapped, sending seventh information to the terminal, the seventh information indicating that the identifier of the network slice in the network slice-related information is mapped.

~~8. The method of any one of claims 1 to 7, further comprising:~~

~~receiving eighth information reported by the terminal, the eighth information representing whether the terminal supports capability of processing the network slice related information.~~

~~9~~7. An information transmission method, applied to a terminal, comprising:

receiving network slice-related information sent by a network side, the network slice-related information comprising at least one of:

first information, the first information indicating a network slice supported by a first cell;

second information, the second information representing a correspondence between the network slice and a frequency;

third information, the ~~second~~ third information representing a correspondence between the network slice and a cell; or

fourth information, the fourth information representing a correspondence between the network slice and a cell access parameter,

wherein in the first information, the second information, the third information and the fourth information, an identifier of the network slice is processed by one of:

the identifier of the network slice being encrypted by using a key;

the identifier of the network slice being truncated; or

the identifier of the network slice being mapped.

~~10~~8. The method of claim ~~9~~7, wherein the network slice-related information is received in a broadcast manner.

~~11~~9. The method of claim ~~10~~8, further comprising:

performing, on the network slice-related information, one of:

decrypting the encrypted identifier of the network slice by using the key, to obtain the identifier of the network slice;

performing a truncation recovery process on the truncated identifier of the network slice, to obtain the identifier of the network slice; or

mapping the mapped identifier of the network slice, to obtain the identifier of the network slice.

~~12~~10. The method of claim ~~11~~9, further comprising:

when encrypted identifier of the network slice is decrypted by using the key, receiving the key sent by the network side in a unicast manner.

~~13~~11. The method of claim ~~11~~9, further comprising:

receiving encrypted fifth information sent by the network side, the fifth information comprising dedicated information sent by the network side to the terminal; and

decrypting the encrypted fifth information by using the key, to obtain the fifth information.

~~14~~12. The method of claim ~~11~~9, further comprising:

when the truncation recovery process is performed on the truncated identifier of the network slice to obtain the identifier of the network slice, receiving sixth information sent by the network side, the sixth information indicating that the identifier of the network slice in the network slice-related information is truncated.

~~15~~13. The method of claim ~~11~~9, further comprising:

when the mapped identifier of the network slice is mapped to obtain the identifier of the network slice, receiving seventh information sent by the network side, the seventh information indicating that the identifier of the network slice in the network slice-related

information is mapped.

~~16~~14. The method of claim ~~9~~7, further comprising when the network slice-related information comprises the second information:

determining network slice information supported by a ~~neighboring~~ first frequency, by using the second information.

~~17~~15. The method of claim ~~9~~7, further comprising: when the network slice-related information comprises the third information,

determining network slice information supported by a ~~neighboring~~ first cell, by using the third information.

~~18~~16. The method of claim ~~9~~7, further comprising: when the network slice-related information comprises the fourth information,

determining cell access parameters of a network slice supported by the terminal, by using the fourth information.

~~19~~17. The method of any one of claims ~~9~~ 7 to ~~18~~16, further comprising:

reporting eighth information to the network side, the eighth information representing whether the terminal supports capability of processing the network slice-related information.

~~20. An information transmission apparatus, comprising:~~

~~a first sending unit, configured to send network slice-related information to a terminal, the network slice-related information comprising at least one of:~~

first information, the first information indicating a network slice supported by a first cell;

second information, the second information representing a correspondence between the network slice and a frequency;

third information, the second information representing a correspondence between the network slice and a cell; or

fourth information, the fourth information representing a correspondence between the network slice and a cell access parameter,

wherein in the first information, the second information, the third information and the fourth information, an identifier of the network slice is processed by one of:

the identifier of the network slice being encrypted by using a key;

the identifier of the network slice being truncated; or

the identifier of the network slice being mapped.

21. An information transmission apparatus, comprising:

a first receiving unit, configured to receive network slice related information sent by a network side, the network slice related information comprising at least one of:

first information, the first information indicating a network slice supported by a first cell;

second information, the second information representing a correspondence between the network slice and a frequency;

third information, the second information representing a correspondence between the network slice and a cell; or

fourth information, the fourth information representing a correspondence between the network slice and a cell access parameter,

wherein in the first information, the second information, the third information and the fourth information, an identifier of the network slice is processed by one of:

the identifier of the network slice being encrypted by using a key;

the identifier of the network slice being truncated; or

the identifier of the network slice being mapped.

22. A network device, comprising a first processor and a first communication interface,

wherein the first communication interface is configured to send network slice related information to a terminal, and the network slice related information comprises at least one of:

first information, the first information indicating a network slice supported by a first cell;

second information, the second information representing a correspondence between the network slice and a frequency;

third information, the second information representing a correspondence between the network slice and a cell; or

fourth information, the fourth information representing a correspondence between the network slice and a cell access parameter,

wherein in the first information, the second information, the third information and the fourth information, an identifier of the network slice is processed by one of:

the identifier of the network slice being encrypted by using a key;

the identifier of the network slice being truncated; or

the identifier of the network slice being mapped.

23. A terminal, comprising a second communication interface and a second processor,

~~wherein the second communication interface is configured to receive network slice-related information sent by a network side, and the network slice-related information comprises at least one of:~~

~~first information, the first information indicating a network slice supported by a first cell;~~

~~second information, the second information representing a correspondence between the network slice and a frequency;~~

~~third information, the second information representing a correspondence between the network slice and a cell; or~~

~~fourth information, the fourth information representing a correspondence between the network slice and a cell access parameter,~~

~~wherein in the first information, the second information, the third information and the fourth information, an identifier of the network slice is processed by one of:~~

~~the identifier of the network slice being encrypted by using a key;~~

~~the identifier of the network slice being truncated; or~~

~~the identifier of the network slice being mapped.~~

~~24~~18. A network device, comprising: a first processor and a first memory configured to store a computer program executable on a processor,

wherein the first processor is configured to execute steps of the method of any one of claims 1 to ~~8~~ 6 when the first processor runs the computer program.

~~25~~19. A terminal, comprising: a second processor and a second memory configured to store a computer program executable on a processor,

wherein the second processor is configured to execute steps of the method of any one

of claims ~~9~~ 7 to ~~19~~ 17 when the second processor runs the computer program.

~~26~~20. A storage medium having stored thereon a computer program which when executed by a processor, implements steps of the method of any one of claims 1 to ~~8~~ 6 or steps of the method of any one of claims ~~9~~ 7 to ~~19~~17.