

CLAIMS

What is claimed is:

1. A communication method, comprising:

receiving, by a terminal device, measurement information from a network device, wherein
5 the measurement information indicates one or more measurement objects, and the measurement information comprises one or more of the following: information about a measurement object of a serving cell, information about intra-frequency measurement of a neighboring cell, and information about inter-frequency measurement of a neighboring cell; and

performing, by the terminal device based on a reference signal associated with one or more
10 measurement objects corresponding to a first bandwidth part (BWP), one or more of the following measurements: radio resource management (RRM) measurement, radio link monitoring (RLM) measurement, and beam failure detection (BFD) measurement.

2. The method according to claim 1, wherein

when the terminal device is in a connected mode, the first BWP is an active BWP.

15 3. The method according to claim 1 or 2, wherein

the reference signal is a non-cell-defined synchronization signal block (NCD-SSB).

4. The method according to any one of claims 1 to 3, wherein

the measurement information is carried in configuration information of a BWP.

5. The method according to claim 4, wherein

20 a frequency domain resource of a reference signal associated with the measurement object corresponding to the first BWP falls within a frequency domain resource range of the first BWP; the measurement information is carried in the configuration information of the serving cell, and the measurement information comprises a plurality of pieces of measurement information; and

a frequency domain resource of the reference signal associated with the measurement object
25 corresponding to the first BWP is the same as a frequency domain resource of the first BWP; or
a frequency domain resource of the reference signal associated with the measurement object corresponding to the first BWP falls within a frequency domain resource range of the first BWP.

6. The method according to any one of claims 1 to 5, wherein the method further comprises:

determining, by the terminal device, the information about the intra-frequency measurement
30 of the neighboring cell based on the measurement information, wherein

a frequency of a reference signal associated with the intra-frequency measurement is the same as a frequency of a first reference signal, and the first reference signal is a reference signal associated with a measurement object of a serving cell in the first BWP.

7. The method according to any one of claims 1 to 6, wherein

5 a measurement period of an NCD-SSB of the serving cell is greater than or equal to a measurement period of a cell-defined synchronization signal block (CD-SSB) of the serving cell.

8. The method according to any one of claims 1 to 7, wherein a maximum quantity N_s of reference signals that comprised in the first BWP is 1.

9. The method according to any one of claims 1 to 8, wherein the terminal device is reduced
10 capability user equipment (RedCap UE).

10. A communication method, comprising:

sending, by a network device, measurement information to a terminal device, wherein the measurement information indicates one or more measurement objects, and the measurement information comprises one or more of the following: information about a measurement object of
15 a serving cell, information about intra-frequency measurement of a neighboring cell, and information about inter-frequency measurement of a neighboring cell; and

receiving, by the network device, a measurement result from the terminal device, wherein the measurement result is a measurement result obtained by the terminal device by performing one or more of the following measurements based on a reference signal associated with one or more
20 measurement objects corresponding to a first bandwidth part (BWP): radio resource management (RRM) measurement, radio link monitoring (RLM) measurement, and beam failure detection (BFD) measurement.

11. The method according to claim 10, wherein

when the terminal device is in a connected mode, the first BWP is an active BWP.

25 12. The method according to claim 10 or 11, wherein

the reference signal is a non-cell-defined synchronization signal block (NCD-SSB).

13. The method according to any one of claims 10 to 12, wherein

the measurement information is carried in configuration information of a BWP.

14. The method according to claim 13, wherein

30 a frequency domain resource of a reference signal associated with the measurement object corresponding to the first BWP falls within a frequency domain resource range of the first BWP.

15. The method according to any one of claims 10 to 14, wherein the method further comprises:

a frequency of a reference signal associated with the intra-frequency measurement is the same as a frequency of a first reference signal, and the first reference signal is a reference signal associated with a measurement object of a serving cell in the first BWP.

16. The method according to any one of claims 10 to 15, wherein

a measurement period of an NCD-SSB of the serving cell is greater than or equal to a measurement period of a cell-defined synchronization signal block (CD-SSB) of the serving cell.

17. The method according to any one of claims 10 to 16, wherein a maximum quantity N_s of reference signals that comprised in the first BWP is 1.

18. The method according to any one of claims 10 to 17, wherein the terminal device is reduced capability user equipment (RedCap UE).

19. A communication apparatus, comprising:

a transceiver module, configured to receive measurement information from a network device, wherein the measurement information indicates one or more measurement objects, and the measurement information comprises one or more of the following: information about a measurement object of a serving cell, information about intra-frequency measurement of a neighboring cell, and information about inter-frequency measurement of a neighboring cell; and

a processing module, configured to perform, based on a reference signal associated with one or more measurement objects corresponding to a first bandwidth part (BWP), one or more of the following measurements: radio resource management (RRM) measurement, radio link monitoring (RLM) measurement, and beam failure detection (BFD) measurement.

20. A communication apparatus, comprising:

a processing module, configured to determine measurement information; and

a transceiver module, configured to send measurement information to a terminal device, wherein the measurement information indicates one or more measurement objects, and the measurement information comprises one or more of the following: information about a measurement object of a serving cell, information about intra-frequency measurement of a neighboring cell, and information about inter-frequency measurement of a neighboring cell, wherein

the transceiver module is further configured to receive a measurement result from the terminal

device, wherein the measurement result is a measurement result obtained by the terminal device by performing one or more of the following measurements based on a reference signal associated with one or more measurement objects corresponding to a first bandwidth part (BWP): radio resource management (RRM) measurement, radio link monitoring (RLM) measurement, and beam failure detection (BFD) measurement.

21. A communication apparatus, wherein the communication apparatus comprises a processor and a communication interface, the communication interface is coupled to the processor, the communication interface is configured to communicate with another module other than the communication apparatus, and the processor is configured to run a computer program or instructions, so that the communication apparatus performs the communication method according to any one of claims 1 to 9, or performs the communication method according to any one of claims 10 to 18.

22. A computer-readable storage medium, wherein the computer-readable storage medium stores computer instructions or a program, and when the computer instructions or the program are/is on a computer, the computer is enabled to perform the communication method according to any one of claims 1 to 9, or perform the communication method according to any one of claims 10 to 18.