WHAT IS CLAIMED IS:

1. A method for reporting an uplink multiple input multiple output (MIMO) transmission capability, performed by a terminal, comprising:

sending a first signaling and a second signaling to a network device, wherein the first signaling is configured to indicate a first uplink MIMO transmission capability supported by the terminal, and the second signaling is configured to indicate a second uplink MIMO transmission capability supported by the terminal;

wherein the first uplink MIMO transmission capability is not lower than the second uplink MIMO transmission capability;

wherein a maximum uplink MIMO transmission capability supported by the terminal is 6 layers or 8 layers.

2. The method according to claim 1, wherein the first uplink MIMO transmission capability comprises the second uplink MIMO transmission capability.

3. The method according to any one of claims 1 to 2, wherein the first uplink MIMO transmission capability is the same as the second uplink MIMO transmission capability, and a content comprised in the first signaling is the same as a content comprised in the second signaling.

4. The method according to any one of claims 1 to 3, wherein a maximum number of layers indicated by the first signaling is 6 layers or 8 layers.

5. The method according to any one of claims 1 to 4, wherein a maximum number of layers indicated by the second signaling is 4 layers.

6. The method according to any one of claims 1 to 5, wherein the first signaling and the second signaling are each a radio resource control (RRC) signaling.

7. A method for receiving an uplink MIMO transmission capability, performed by a network device, comprising:

receiving a first signaling and a second signaling sent by a terminal, wherein the first signaling is configured to indicate a first uplink MIMO transmission capability supported by the terminal, and the second signaling is configured to indicate a second uplink MIMO transmission capability supported by the terminal, and the first uplink MIMO transmission capability is not lower than the

second uplink MIMO transmission capability; and

determining a limit on a number of layers for an actual uplink MIMO transmission according to a maximum uplink MIMO transmission capability supported by the terminal;

wherein a maximum uplink MIMO transmission capability supported by the terminal is 6 layers or 8 layers.

8. The method according to claim 7, wherein determining the limit on the number of layers for the actual uplink MIMO transmission according to the maximum uplink MIMO transmission capability supported by the terminal comprises:

determining a number of layers corresponding to the first uplink MIMO transmission capability indicated by the first signaling to be the limit on the number of layers for the actual uplink MIMO transmission in a case where the first signaling is identified.

9. The method according to claim 7, wherein determining the limit on the number of layers for the actual uplink MIMO transmission according to the maximum uplink MIMO transmission capability supported by the terminal comprises:

determining a number of layers corresponding to the second uplink MIMO transmission capability indicated by the second signaling to be the limit on the number of layers for the actual uplink MIMO transmission in a case where the first signaling is not identified.

10. The method according to any one of claims 7 to 9, further comprising:

configuring the number of layers for the actual uplink MIMO transmission, wherein the number of layers for the actual uplink MIMO transmission is not greater than a number of layers corresponding to the maximum uplink MIMO transmission capability supported by the terminal.

11. The method according to any one of claims 7 to 10, wherein the first uplink MIMO transmission capability comprises the second uplink MIMO transmission capability.

12. The method according to any one of claims 7 to 11, wherein the first uplink MIMO transmission capability is the same as the second uplink MIMO transmission capability, and a content comprised in the first signaling is the same as a content comprised in the second signaling.

13. The method according to any one of claims 7 to 12, wherein a maximum number of layers indicated by the first signaling is 6 layers or 8 layers.

14. The method according to any one of claims 7 to 13, wherein a maximum number of layers

indicated by the second signaling is 4 layers.

15. The method according to any one of claims 7 to 14, wherein the first signaling and the second signaling are each an RRC signaling.

16. A terminal, comprising:

a processor; and

a transceiver connected to the processor;

wherein the processor is configured to load and execute executable instructions to implement the method according to any one of claims 1 to 6.

17. A network device, comprising:

a processor; and

a transceiver connected to the processor;

wherein the processor is configured to load and execute executable instructions to implement the method according to any one of claims 7 to 15.

18. A computer-readable storage medium, having stored therein executable program codes that, when loaded and executed by a processor, cause the method according to any one of claims 1 to 15 to be implemented.

19. A computer program product, when executed by a processor of a terminal or network device, configured to implement the method according to any one of claims 1 to 15.