## CLAIMS

1. A communication method, wherein the method comprises:

generating a radio frame, wherein the radio frame comprises a control field and a padding field, the padding field follows the control field, the control field indicates a first bandwidth, the first bandwidth is a bandwidth of the radio frame, and a minimum duration of the padding field is determined based on the first bandwidth; and

sending the radio frame to a station device.

2. The method according to claim 1, wherein when the first bandwidth is less than or equal to a second bandwidth, the minimum duration of the padding field is a first duration; or when the first bandwidth is greater than the second bandwidth, the minimum duration of the padding field is a second duration.

3. The method according to claim 1, wherein when the first bandwidth is less than or equal to a second bandwidth, the minimum duration of the padding field is 0; or when the first bandwidth is greater than the second bandwidth, the minimum duration of the padding field is a third duration.

4. The method according to claim 1, wherein the minimum duration of the padding field corresponds to one or more first bandwidths.

5. The method according to claim 1, wherein the minimum duration of the padding field is determined based on at least two of the first bandwidth, and a number of spatial streams (NSS) and a modulation and coding scheme (MCS) that are used by the station device.

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

receiving capability information sent by the station device, wherein the capability information indicates the minimum duration of the padding field.

7. The method according to claim 6, wherein the capability information comprises at least one of the following information: a mapping relationship between a magnitude relationship between the first bandwidth and the second bandwidth and the minimum duration of the padding field; a mapping relationship between the first bandwidth and the minimum duration of the padding field; and a mapping relationship between at least two of the first bandwidth, and the NSS and the MCS that are used by the station device, and the minimum duration of the padding field.

8. The method according to claim 6 or 7, wherein

the capability information comprises the first duration and the second duration, the first duration is the minimum duration of the padding field used when the first bandwidth is less than or equal to the second bandwidth, and the second duration is the minimum duration of the padding field used when the first bandwidth is greater than the second bandwidth; or

the capability information comprises the third duration, and the third duration is the minimum

duration of the padding field used when the first bandwidth is greater than the second bandwidth; or

the capability information comprises a plurality of minimum durations of the padding field, and one minimum duration corresponds to one or more first bandwidths; or

the capability information comprises a plurality of minimum durations of the padding field, and one minimum duration corresponds to at least two of the first bandwidth, and the NSS and the MCS that are used by the station device.

9. The method according to claim 2, 3, 7, or 8, wherein the second bandwidth is an initial bandwidth used by the station device.

10. The method according to any one of claims 1 to 9, wherein the first bandwidth is a bandwidth determined based on channel contention.

11. The method according to any one of claims 1 to 10, wherein the radio frame further comprises a frame check field, and the frame check field follows the padding field, or the frame check field is located before the padding field and after the control field.

12. The method according to any one of claims 1 to 11, wherein the radio frame is an initial frame or an initial control frame.

13. A communication apparatus, comprising a memory and a processor, wherein the memory is configured to store a computer program, and the processor runs the computer program to enable the communication apparatus to perform the method according to any one of claims 1 to 12.

14. A computer-readable storage medium, wherein the computer-readable storage medium comprises a computer program, and when the computer program is run by a processor, the method according to any one of claims 1 to 12 is implemented.

15. A chip, wherein the chip comprises a processor and a communication interface, the communication interface is configured to communicate with an external component or an internal component, and the processor is configured to implement the method according to any one of claims 1 to 12.