CLAIMS

What is claimed is:

1. A bandwidth determining method, comprising:

receiving, by a first device, a physical layer protocol data unit PPDU from a second device, wherein the PPDU is used to determine a scrambling sequence and a service field, and a first group of bits in the scrambling sequence and a second group of bits in the service field indicate a bandwidth; and

if a check error occurs in the second group of bits, determining a bandwidth for communication between the first device and the second device based on the first group of bits.

2. The method according to claim 1, wherein the determining a bandwidth for communication between the first device and the second device based on the first group of bits comprises:

if the first group of bits indicate a single candidate bandwidth, determining the single candidate bandwidth as the bandwidth for communication.

3. The method according to claim 1, wherein the determining a bandwidth for communication between the first device and the second device based on the first group of bits comprises:

if a value of the first group of bits is 1, it indicates that the bandwidth for communication is a first bandwidth;

if a value of the first group of bits is 2, it indicates that the bandwidth for communication is a second bandwidth; or

if a value of the first group of bits is 3, it indicates that the bandwidth for communication is a third bandwidth.

4. The method according to claim 3, wherein the first bandwidth is 40 MHz, the second bandwidth is 80 MHz, and the third bandwidth is 160 MHz.

5. The method according to claim 1, wherein the determining a bandwidth for communication between the first device and the second device based on the first group of bits comprises:

if the first group of bits indicate a plurality of candidate bandwidths, determining the bandwidth for communication from the plurality of candidate bandwidths based on a bandwidth negotiation process between the first device and the second device.

6. The method according to claim 5, wherein the determining the bandwidth for communication from the plurality of candidate bandwidths comprises:

if the bandwidth negotiation process is a dynamic bandwidth negotiation process, selecting a smallest candidate bandwidth from the plurality of candidate bandwidths.

7. The method according to claim 5, wherein the determining the bandwidth for communication from the plurality of candidate bandwidths comprises:

if the bandwidth negotiation process is a non-dynamic bandwidth negotiation process, determining the bandwidth for communication from the plurality of candidate bandwidths through blind detection, wherein the non-dynamic bandwidth negotiation process comprises a static bandwidth negotiation process or a bandwidth negotiation-free process.

8. The method according to claim 5, wherein the bandwidth negotiation process is determined depending on whether the PPDU indicates a preset parameter or based on a value of a preset parameter indicated by the PPDU.

9. The method according to claim 1, wherein the PPDU is a PPDU in a non-high throughput non-HT format or a PPDU in a non-high throughput duplicated non-HT duplicated format.

10. A first device, comprising a unit configured to perform the method according to any one of claims 1 to 9.

11. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the program is executed by a processor, the method according to any one of claims 1 to 9 is implemented.

12. A computer program product, comprising computer-executable instructions, wherein when the computer-executable instructions are executed by a processor, the method according to any one of claims 1 to 9 is implemented.