

CLAIMS

1. A method for wireless communication, comprising:

determining, by a network device, System Information Block 1 (SIB1) association indication information of a first Synchronization Signal Block (SSB), the SIB1 association indication information being configured to indicate whether the first SSB is associated with SIB1;

determining, by the network device, whether the first SSB bears indication information of a Quasi-Co-Located (QCL) parameter and/or an indication manner for the QCL parameter in the first SSB based on whether the first SSB is associated with SIB1; and

sending, by the network device, the first SSB.

2. The method of claim 1, wherein determining, by the network device, whether the first SSB bears the indication information of the QCL parameter and/or the indication manner for the QCL parameter in the first SSB based on whether the first SSB is associated with SIB1 comprises:

in response to the first SSB being not associated with SIB1, determining that the first SSB does not comprise the indication information of the QCL parameter; or

in response to the first SSB being associated with SIB1, determining that the first SSB comprises the indication information of the QCL parameter.

3. The method of claim 2, further comprising:

in response to the first SSB comprising the indication information of the QCL parameter, determining that the indication manner for the QCL parameter in the first SSB is a specific indication manner,

wherein the specific indication manner is any one of following indication manners:

indicating the QCL parameter through K bits in a Physical Downlink Control Channel (PDCCH) Configuration SIB1 (pdccch-ConfigSIB1) information field, K being a positive integer;

indicating the QCL parameter through A bits in a pdccch-ConfigSIB1 information field and B bits in a subCarrierSpacingCommon information field, A and B being positive integers;

indicating the QCL parameter through C bits in a pdccch-ConfigSIB1 information field

and D bits in an SSB-SubcarrierOffset information field, C and D being positive integers; or
indicating the QCL parameter through E bits in a SSB-SubcarrierOffset information field and F bits in a subCarrierSpacingCommon information field, E and F being positive integers.

4. The method of claim 3, wherein

A is 1, and B is 1;

C is 1, and D is 1; and

E is 1, and F is 1.

5. A method for wireless communication, comprising:

receiving, by a terminal device, a first Synchronization Signal Block (SSB), the first SSB comprising System Information Block 1 (SIB1) association indication information, and the SIB1 association indication information being configured to indicate whether the first SSB is associated with SIB1; and

determining, by the terminal device, whether the first SSB bears indication information of a Quasi-Co-Located (QCL) parameter and/or an indication manner for the QCL parameter in the first SSB based on whether the first SSB is associated with SIB1.

6. The method of claim 5, wherein determining, by the terminal device, whether the first SSB bears the indication information of the QCL parameter and/or the indication manner for the QCL parameter in the first SSB based on whether the first SSB is associated with SIB1 comprises:

in response to the first SSB being not associated with SIB1, determining that the first SSB does not comprise the indication information of the QCL parameter; and

in response to the first SSB being associated with SIB1, determining that the first SSB comprises the indication information of the QCL parameter.

7. The method of claim 6, further comprising:

in response to the first SSB comprising the indication information of the QCL parameter, determining that the indication manner for the QCL parameter in the first SSB is a specific indication manner,

wherein the specific indication manner is any one of following indication manners:

indicating the QCL parameter through K bits in a Physical Downlink Control Channel

(PDCCH) Configuration SIB1 (pdccch-ConfigSIB1) information field, K being a positive integer;

indicating the QCL parameter through A1 bits in a pdccch-ConfigSIB1 information field and B1 bits in a subCarrierSpacingCommon information field, A1 and B1 being positive integers;

indicating the QCL parameter through C1 bits in a pdccch-ConfigSIB1 information field and D1 bits in an SSB-SubcarrierOffset information field, C1 and D1 being positive integers; or

indicating the QCL parameter through E1 bits in a SSB-SubcarrierOffset information field and F1 bits in a subCarrierSpacingCommon information field, E1 and F1 being positive integers.

8. The method of claim 7, wherein

A1 is 1, and B1 is 1;

C1 is 1, and D1 is 1; and

E1 is 1, and F1 is 1.

9. A network device, comprising:

a determination module, configured to:

determine System Information Block 1 (SIB1) association indication information of a first Synchronization Signal Block (SSB), the SIB1 association indication information being configured to indicate whether the first SSB is associated with SIB1, and

determine whether the first SSB bears indication information of a Quasi-Co-Located (QCL) parameter and/or an indication manner for the QCL parameter in the first SSB based on whether the first SSB is associated with SIB1; and

a communication module, configured to send the first SSB.

10. The network device of claim 9, wherein the determination module is configured to:

in response to the first SSB being not associated with SIB1, determine that the first SSB does not comprise the indication information of the QCL parameter; or

in response to the first SSB being associated with SIB1, determine that the first SSB comprises the indication information of the QCL parameter.

11. The network device of claim 10, wherein the determination module is further configured

to:

in response to the first SSB comprising the indication information of the QCL parameter, determine that the indication manner for the QCL parameter in the first SSB is a specific indication manner,

wherein the specific indication manner is any one of following indication manners:

indicating the QCL parameter through K bits in a Physical Downlink Control Channel (PDCCH) Configuration SIB1 (pdcch-ConfigSIB1) information field, K being a positive integer;

indicating the QCL parameter through A bits in a pdcch-ConfigSIB1 information field and B bits in a subCarrierSpacingCommon information field, A and B being positive integers;

indicating the QCL parameter through C bits in a pdcch-ConfigSIB1 information field and D bits in an SSB-SubcarrierOffset information field, C and D being positive integers; or

indicating the QCL parameter through E bits in a SSB-SubcarrierOffset information field and F bits in a subCarrierSpacingCommon information field, E and F being positive integers.

12. The network device of claim 11, wherein

A is 1, and B is 1;

C is 1, and D is 1; and

E is 1, and F is 1.

13. A terminal device, comprising:

a communication module, configured to receive a first Synchronization Signal Block (SSB), the first SSB comprising System Information Block 1 (SIB1) association indication information, and the SIB1 association indication information being configured to indicate whether the first SSB is associated with SIB1; AND

a determination module, configured to determine whether the first SSB bears indication information of a Quasi-Co-Located (QCL) parameter and/or an indication manner for the QCL parameter in the first SSB based on whether the first SSB is associated with SIB1.

14. The terminal device of claim 13, wherein the determination module is specifically configured to:

in response to the first SSB being not associated with SIB1, determine that the first SSB does not comprise the indication information of the QCL parameter; and

in response to the first SSB being associated with SIB1, determine that the first SSB comprises the indication information of the QCL parameter.

15. The terminal device of claim 14, wherein the processor is further configured to:

in response to the first SSB comprising the indication information of the QCL parameter, determine that the indication manner for the QCL parameter in the first SSB is a specific indication manner,

wherein the specific indication manner is any one of following indication manners:

indicating the QCL parameter through K bits in a Physical Downlink Control Channel (PDCCH) Configuration SIB1 (pdcch-ConfigSIB1) information field, K being a positive integer;

indicating the QCL parameter through A1 bits in a pdcch-ConfigSIB1 information field and B1 bits in a subCarrierSpacingCommon information field, A1 and B1 being positive integers;

indicating the QCL parameter through C1 bits in a pdcch-ConfigSIB1 information field and D1 bits in an SSB-SubcarrierOffset information field, C1 and D1 being positive integers; or

indicating the QCL parameter through E1 bits in a SSB-SubcarrierOffset information field and F1 bits in a subCarrierSpacingCommon information field, E1 and F1 being positive integers,

wherein A1 is 1, and B1 is 1; C1 is 1, and D1 is 1; and E1 is 1, and F1 is 1.