

CLAIMS

1. A method for receiving information, the method being performed by User Equipment (UE) and comprising:

acquiring association relationships between paging bandwidths and reference signals, each association relationship comprising a Quasi-Co-Location (QCL) relationship, each paging bandwidth being located on a respective one of a plurality of Bandwidth Parts (BWPs), and each paging bandwidth being a frequency domain bandwidth or a frequency domain position, which is corresponding to a Control Resource Set (CORESET) for paging;

acquiring a reference signal having an association relationship with a paging bandwidth corresponding to the UE in the association relationships, a BWP on which the paging bandwidth corresponding to the UE is located being different from a BWP on which a detected reference signal is located; and

receiving a paging message in the paging bandwidth corresponding to the UE, according to the reference signal having the association relationship with the paging bandwidth corresponding to the UE in the association relationships.

2. The method of claim 1, wherein acquiring the QCL relationships between the paging bandwidths and the reference signals comprises: acquiring indication information indicating the association relationships between the paging bandwidths and the reference signals.

3. The method of claim 1, wherein acquiring the association relationships between the paging bandwidths and the reference signals comprises:

receiving Remaining Minimum System Information (RMSI) or Other System Information (OSI), wherein the RMSI or the OSI is used for notifying indication information of each of the paging bandwidths and indication information of a reference signal having an association relationship with the paging bandwidth.

4. The method of claim 1, wherein acquiring the association relationships between the paging bandwidths and the reference signals comprises:

defining each association relationship according to a preset association relationship establishment strategy,

wherein the preset association relationship establishment strategy comprises one of:

a paging message in a paging bandwidth has an association relationship with a reference signal on a BandWidth Part (BWP) on which the paging bandwidth is located, wherein the paging bandwidth is a part of the BWP and the BWP is a part of a system bandwidth;

a paging message in a paging bandwidth has an association relationship with a reference signal that is closest to the paging bandwidth in a frequency domain; or

a paging message in a paging bandwidth has an association relationship with a preset reference signal.

5. The method of claim 1, wherein the reference signal comprises at least one of: a Channel State Information Reference Signal (CSI-RS), or a Tracking Reference Signal (TRS).

6. The method of claim 5, wherein the reference signal is configured by a network side to the UE; and the CSI-RS is used for Radio Resource Management (RRM) and mobility measurement, and the TRS is used for time frequency tracking.

7. A method for receiving information, the method being performed by a network device and comprising:

sending association relationships between paging bandwidths and reference signals, each association relationship comprising a Quasi-Co-Location (QCL) relationship, each paging bandwidth being located on a respective one of a plurality of Bandwidth Parts (BWPs), and each paging bandwidth being a frequency domain bandwidth or a frequency domain position, which is corresponding to a Control Resource Set (CORESET) for paging; and

sending a reference signal having an association relationship with a paging bandwidth corresponding to User Equipment (UE) in the association relationships, a BWP on which the paging bandwidth corresponding to the UE is located being different from a BWP on which a detected reference signal is located;

wherein the reference signal having the association relationship with the paging bandwidth corresponding to the UE is used for reception of a paging message in the paging bandwidth corresponding to the UE by the UE.

8. The method of claim 7, wherein sending the QCL relationships between the paging bandwidths and the reference signals comprises: sending indication information indicating the association relationships between the paging bandwidths and the reference signals.

9. The method of claim 7, wherein sending the association relationships between the paging bandwidths and the reference signals comprises:

sending Remaining Minimum System Information (RMSI) or Other System Information (OSI), wherein the RMSI or the OSI is used for notifying indication information of each of the paging bandwidths and indication information of a reference signal having an association relationship with the paging bandwidth.

10. The method of claim 7, wherein the reference signal comprises at least one of: a Channel State Information Reference Signal (CSI-RS), or a Tracking Reference Signal (TRS);

wherein the reference signal is configured by a network side to the UE; and the CSI-RS is used for Radio Resource Management (RRM) and mobility measurement, and the TRS is used for time frequency tracking.

11. User Equipment (UE), comprising: a first acquisition portion, a second acquisition portion and a receiving portion, wherein

the first acquisition portion is configured to acquire association relationships between paging bandwidths and reference signals, each association relationship comprising a Quasi-Co-Location (QCL) relationship, each paging bandwidth being located on a respective one of a plurality of Bandwidth Parts (BWPs), and each paging bandwidth being a frequency domain bandwidth or a frequency domain position, which is corresponding to a Control Resource Set (CORESET) for paging;

the second acquisition portion is configured to acquire a reference signal having an association relationship with a paging bandwidth corresponding to the UE

in the association relationships, a BWP on which the paging bandwidth corresponding to the UE is located being different from a BWP on which a detected reference signal is located; and

the receiving portion is configured to receive, according to the reference signal having the association relationship with the paging bandwidth corresponding to the UE in the association relationships, a paging message in the paging bandwidth corresponding to the UE.

12. The UE of claim 11, wherein the first acquisition portion is configured to acquire indication information indicating the association relationships between the paging bandwidths and the reference signals.

13. The UE of claim 11, wherein the first acquisition portion is configured to:

receive Remaining Minimum System Information (RMSI) or Other System Information (OSI), wherein the RMSI or the OSI is used for notifying indication information of each of the paging bandwidths and indication information of a reference signal having an association relationship with the paging bandwidth.

14. The UE of claim 11, wherein the first acquisition portion is configured to:

define each association relationship according to a preset association relationship establishment strategy,

wherein the preset association relationship establishment strategy comprises one of:

a paging message in a paging bandwidth has an association relationship with a reference signal on a BandWidth Part (BWP) on which the paging bandwidth is located, wherein the paging bandwidth is a part of the BWP and the BWP is a part of a system bandwidth;

a paging message in a paging bandwidth has an association relationship with a reference signal that is closest to the paging bandwidth in a frequency domain; or

a paging message in a paging bandwidth has an association relationship with a preset reference signal.

15. The UE of claim 11, wherein the reference signal comprises at least one of: a

Channel State Information Reference Signal (CSI-RS), or a Tracking Reference Signal (TRS).

16. The UE of claim 15, wherein the reference signal is configured by a network side to the UE; and the CSI-RS is used for Radio Resource Management (RRM) and mobility measurement, and the TRS is used for time frequency tracking.

17. A network device, comprising a sending portion, wherein

the sending portion is configured to send association relationships between paging bandwidths and reference signals, each association relationship comprising a Quasi-Co-Location (QCL) relationship, each paging bandwidth being located on a respective one of a plurality of Bandwidth Parts (BWPs), and each paging bandwidth being a frequency domain bandwidth or a frequency domain position, which is corresponding to a Control Resource Set (CORESET) for paging; and

send a reference signal having an association relationship with a paging bandwidth corresponding to User Equipment (UE) in the association relationships, a BWP on which the paging bandwidth corresponding to the UE is located being different from a BWP on which a detected reference signal is located;

wherein the reference signal having the association relationship with the paging bandwidth corresponding to the UE is used for reception of a paging message in the paging bandwidth corresponding to the UE by the UE.

18. The network device of claim 17, wherein the sending portion is configured to send indication information indicating the association relationships between the paging bandwidths and the reference signals.

19. The network device of claim 17, wherein the sending portion is configured to send Remaining Minimum System Information (RMSI) or Other System Information (OSI), wherein the RMSI or the OSI is used for notifying indication information of each of the paging bandwidths and indication information of a reference signal having an association relationship with the paging bandwidth.

20. The network device of claim 17, wherein the reference signal comprises at least

one of: a Channel State Information Reference Signal (CSI-RS), or a Tracking Reference Signal (TRS);

wherein the reference signal is configured by a network side to the UE; and the CSI-RS is used for Radio Resource Management (RRM) and mobility measurement, and the TRS is used for time frequency tracking.