CLAIMS

1. A device for information transmission, comprising a processing unit and a transmitting unit, wherein

the processing unit is configured to acquire first indication information transmitted by a second device, wherein the first indication information is used to request first system information required by the second device; and

the transmitting unit is configured to transmit the first system information according to the first indication information.

2. The device of claim 1, wherein the processing unit is further configured to acquire the first indication information transmitted by the second device, wherein the first indication information is one of first physical layer indication information, first Media Access Control, MAC, layer indication information, or first Radio Resource Control, RRC, layer indication information.

3. The device of claim 1, wherein the transmitting unit is further configured to

transmit second indication information via broadcasting or dedicated signaling, the second indication information indicating system information which can be transmitted by the device.

4. The device of claim 3, wherein the transmitting unit is further configured to

broadcast the second indication information, wherein the second indication information is one of second physical layer indication information, second Media Access Control, MAC, layer indication information or second Radio Resource Control, RRC, layer indication information.

5. The device of claim 4, wherein the transmitting unit is further configured to perform one of:

transmitting the second physical layer indication information corresponding to different system information or different system information sets through one of different physical layer channels, different physical resource blocks, or different physical layer sequences;

carrying the second RRC layer indication information corresponding to different system information or system information sets through different control domains of a RRC message or through different control bits of a same control domain of a RRC message; or

carrying the second MAC layer indication information corresponding to different system information or system information sets through different control domains of a MAC message or through different bits of a same control domain of a MAC message.

6. The device of any one of claims 1 to 5, wherein the processing unit is further configured to determine second system information, wherein the second system information is system information associated with the first system information; and

the transmitting unit is further configured to transmit the second system information.

7. The device of claim 6, wherein the processing unit is further configured to perform at least one of:

determining, as the second system information, other system information in the system information set to which the first system belongs, or

determining, as the second system information, other system information utilized by a service utilizing the first system information.

8. A device for information transmission, comprising a processing unit and a transmitting unit, wherein

the processing unit is configured to determine that system information needs to be transmitted when a sequence is detected on radio resources for transmitting a first indication information, wherein the first indication information is used to request the system information; and

the transmitting unit is configured to transmit the system information.

9. The device of claim 8, wherein

the processing unit is further configured to determine a terminal device which is capable of transmitting the first indication information using the resources; and

the transmitting unit is further configured to transmit the system information to the terminal device, wherein the resources are a combination of at least one of a physical channel, a physical resource block, an antenna port or a sequence of code words.

10. A device for information transmission, comprising a transmitting unit and a processing unit, wherein

the transmitting unit is configured to transmit first indication information to a first device, wherein the first indication information is used to request first system information required by the device; and

the processing unit is configured to acquire the first system information transmitted by the first device.

11. The device of claim 10, wherein the processing unit is further configured to

acquire the first system information which is transmitted by the first device by means of at least one of a broadcast, a multicast or a unicast.

12. The device of any one of claim 10 or 11, wherein

both the first device and the device are terminal devices; or

the first device is a network device and the device is a terminal device.

13. The device of any one of claims 10 to 12, wherein the transmitting unit is further configured to transmit the first indication information to the first device, wherein the first indication information is one of first physical layer indication information, first Media Access Control, MAC, layer indication information, or first Radio Resource Control, RRC, layer indication information.

14. The device of claim 13, wherein the transmitting unit is further configured to perform one of:

transmitting the first physical layer indication information through one or

combination of a physical layer channel, a physical layer resource block or a physical layer sequence, wherein each or the combination of the physical layer resource block and the physical layer sequence corresponds to the first system information;

transmitting the first MAC layer indication information, which corresponds to the system information, in a MAC message or through a control bit, which corresponds to the first system information, in a reserved control domain of a MAC message; or

transmitting the first RRC layer indication information, which corresponds to the system information, in a RRC message or through a control bit, which corresponds to the first system information in a reserved control domain of a RRC message.

15. The device of claim 14, wherein the processing unit is further arranged to: before the first MAC layer indication information or the first RRC layer indication information is transmitted by the transmitting unit,

determine that the physical layer of the device performs information transmission by means of sharing channel.

16. The device of any one of claims 10 to 15, wherein the processing unit is further configured to: before the first indication information is transmitted by the transmitting unit,

acquire second indication information transmitted by the first device, the second indication information indicating the system information which can be transmitted by the first device; and

the transmitting unit is further configured to transmit the first indication information to the first device according to the second indication information, the first system information belongs to the system information which can be transmitted by the first device.

17. The device of claim 16, wherein the processing unit is further configured to

acquire second physical layer indication information, second MAC layer indication information or second RRC layer indication information which are transmitted by the first device.

18. The device of claim 17, wherein the processing unit is further configured to perform one of:

acquiring the second physical layer indication information corresponding to different system information or different system information sets via one of different physical layer channels, different physical resource blocks, or different physical layer sequences;

acquiring the second RRC layer indication information corresponding to different system information or different system information sets from different control domains of a RRC message or from different control bits of a same control domain of a RRC message; or

acquiring the second MAC layer indication information corresponding to different system information or different system information sets from different control domains of a MAC message or from different control bits of a same control domain of a MAC message.

19. The device of any one of claims 10 to 18, wherein the processing unit is further configured to

receive second system information transmitted by the first device, wherein the second system information is system information associated with the first system information.

20. The device of any one of claims 10 to 19, wherein the system information comprises at least one of:

information associated with cell selection and resident, scheduling information of information block in which the system information is located, access restriction information, common channel parameters, configuration information of subframes of Multimedia Broadcast multicast service Single Frequency Network, MBSFN, information associated with cell reselection, reselection information of cells with a same frequency, reselection information of cells with different frequencies, reselection information of cells with different systems.