CLAIMS

1. A communication method, wherein a first timing advance TA for communicating with a first transmission reception point TRP has been obtained, and the method comprises:

obtaining, from a network device, configuration information of a first resource and information indicating to obtain a TA;

sending, based on the information indicating to obtain a TA, information used to determine a second TA of a second TRP to the network device by using the first resource; and

receiving, from the network device, information indicating the second TA, wherein the second TA is used by a terminal device to communicate with the second TRP.

2. The method according to claim 1, wherein the obtaining, from a network device, configuration information of a first resource and information indicating to obtain a TA comprises:

receiving a first message from the network device, wherein the first message comprises configuration information of one or more resources, and the one or more resources comprise the first resource; and

receiving a second message from the network device, wherein the second message comprises the information indicating to obtain a TA.

3. The method according to claim 2, wherein the first message is an mTRP transmission configuration message, and the second message is a physical downlink control channel order PDCCH order.

4. The method according to claim 1 or 2 , wherein the receiving, from the network device, information indicating the second TA comprises:

receiving, information indicating the second TA and TA group TAG identifier corresponding to the second TRP from the network device, wherein the information indicating the second TA and the TA group TAG identifier corresponding to the second TRP indicate the second TA corresponds to the second TRP.

5. The method according to any one of claims 1 to 4, wherein the first resource is any one of the following:

a beam, a random access resource, or a sounding reference signal SRS resource.

6. The method according to any one of claims 3 to 5, wherein the mTRP transmission configuration message further comprises at least one of the following configuration information of a second resource corresponding to the second TRP:

configuration information of a physical downlink control channel PDCCH resource, configuration information of a physical uplink control channel PUCCH resource, configuration information of a physical uplink shared channel PUSCH resource used for semi-persistent channel

state information reporting, configuration information of a downlink assignment resource, configuration information of an uplink grant resource, configuration information of a beam and/or a beam set, and configuration information of a resource corresponding to an uplink reference signal.

7. The method according to claim 6, wherein the method further comprises:

receiving an adjustment command from the network device by using the second resource, wherein the adjustment command comprises TA update information corresponding to the second TRP, and the TA update information is used to update the second TA; and

determining, based on a correspondence between the second resource and the second TRP, that the adjustment command corresponds to the second TRP, wherein the correspondence between the second resource and the second TRP comprises configuration information of the second resource and the identification information of the second TRP.

8. The method according to claim 6 or 7, wherein the first TRP corresponds to a first timer, and the second TRP corresponds to a second timer; and

the method further comprises:

when the first timer has not expired and the second timer expires, performing at least one of the following operations:

flushing a buffer of a hybrid automatic repeat request HARQ process corresponding to the second TRP;

releasing the PUCCH resource corresponding to the second TRP and/or the resource corresponding to the uplink reference signal corresponding to the second TRP;

clearing a preconfigured downlink assignment resource and uplink grant resource corresponding to the second TRP;

clearing an associated PUSCH resource that corresponds to the second TRP and that is used for semi-persistent channel state information reporting;

maintaining the second TA; and

sending indication information to the network device based on the first TA, wherein the indication information indicates that the second TA is invalid.

9. The method according to claim 6 or 7, wherein the first TRP corresponds to a first timer, and the second TRP corresponds to a second timer; and

the method further comprises:

when both the first timer and the second timer expire, performing at least one of the following operations:

flushing a buffer of a hybrid automatic repeat request HARQ process corresponding to the first TRP and HARQ process corresponding to the second TRP;

releasing the PUCCH resource corresponding to the first TRP and/or the resource

corresponding to the uplink reference signal corresponding to the first TRP, and the PUCCH resource corresponding to the second TRP and/or the resource corresponding to the uplink reference signal corresponding to the second TRP;

clearing a preconfigured downlink assignment resource and uplink grant resource corresponding to the first TRP and a preconfigured downlink assignment resource and uplink grant resource corresponding to the second TRP;

clearing an associated PUSCH resource that corresponds to the first TRP and that is used for semi-persistent channel state information reporting and an associated PUSCH resource that corresponds to the second TRP and that is used for semi-persistent channel state information reporting; and

maintaining the first TA and the second TA.

10. A communication method, wherein the method is applied to a network device and comprises:

sending a first timing advance TA corresponding to a first transmission reception point TRP to a terminal device, wherein the first TA is used by the terminal device to communicate with the first TRP;

sending, to the terminal device, configuration information of a first resource and information indicating to obtain a TA;

receiving information that is sent by the terminal device by using the first resource in response to the information indicating to obtain a TA and that is used to determine a second TA of a second TRP; and

sending, to the terminal device, information indicating the second TA, wherein the second TA is used by the terminal device to communicate with the second TRP.

11. The method according to claim 10, wherein the sending, to the terminal device, configuration information of a first resource and information indicating to obtain a TA comprises:

sending a first message to the terminal device, wherein the first message comprises configuration information of one or more resources, and the one or more resources comprise the first resource; and

sending a second message to the terminal device, wherein the second message comprises the information indicating to obtain a TA.

12. The method according to claim 11, wherein the first message is an mTRP transmission configuration message, and the second message is a physical downlink control channel order PDCCH order.

13. The method according to claim 11 or 12, wherein the first message further comprises a correspondence between the first resource and the second TRP, and the correspondence between

the first resource and the second TRP comprises the configuration information of the first resource and identification information of the second TRP.

14. The method according to claim 11 or 12, wherein the second message further comprises a correspondence between the first resource and the second TRP, and the correspondence between the first resource and the second TRP comprises the indication information of the first resource and identification information of the second TRP.

15. The method according to any one of claims 10 to 12, wherein the sending, to the terminal device, information indicating the second TA comprises:

sending information indicating the second TA and TA group TAG identifier corresponding to the second TRP to the terminal device.

16. A communication apparatus, comprising a unit or a module configured to perform the method according to any one of claims 1 to 9.

17. A communication apparatus, comprising a unit or a module configured to perform the method according to any one of claims 10 to 15.

18. A communication apparatus, comprising:

one or more processors, one or more transceivers, and one or more memories, wherein

the one or more memories are configured to store a computer program, and the one or more processors and the one or more transceivers are configured to execute the computer program stored in the one or more memories, to enable the communication apparatus to perform the method according to any one of claims 1 to 9 or the method according to any one of claims 10 to 15.

19. A computer-readable storage medium, wherein the storage medium stores a computer program or instructions, and when the computer program or the instructions are executed by a computer, the method according to any one of claims 1 to 9 or claims 10 to 15 is implemented.

20. A computer program product, comprising computer program code, wherein when the computer program code is run on a computer, the method according to any one of claims 1 to 9 or claims 10 to 15 is implemented.