CLAIMS:

1. A method for scheduling multiple transmission reception point (mTRP) transmission, wherein the method is performed by an access network device, and the method comprises:

determining a maximum transmit timing difference (MTTD) supported by a terminal; and

scheduling a transmission operation of multiple downlink control information (M-DCI) of the mTRP of the terminal based on the MTTD.

2. The method according to claim 1, wherein scheduling the transmission operation of the M-DCI of the mTRP of the terminal based on the MTTD comprises:

scheduling the transmission operation of the M-DCI of the mTRP of the terminal based on the MTTD and a difference between timing advances (TA) of TRPs of the mTRP.

3. The method according to claim 2, wherein scheduling the transmission operation of the M-DCI of the mTRP of the terminal based on the MTTD and the difference between the TAs of TRPs of the mTRP comprises:

scheduling the transmission of the M-DCI of the mTRP of the terminal in response to the difference between the TAs of the MTTD and the TRPs being smaller than or equal to the MTTD.

4. The method according to claim 1, wherein the determining the maximum transmit timing difference (MTTD) supported by the terminal comprises:

determining the MTTD supported by the terminal based on predetermined configuration information;

or,

determining the MTTD supported by the terminal based on terminal capability information, wherein the terminal capability information indicates the MTTD.

5. The method according to claim 4, wherein the determining the MTTD supported by the terminal based on the terminal capability information comprises:

in response to being configured with predetermined configuration information and receiving the terminal capability information, determining the MTTD supported by the terminal based on the terminal capability information.

6. The method according to claim 4, wherein the method further comprises:

receiving the terminal capability information sent by the terminal.

7. The method according to claim 4, wherein the determining the MTTD supported by the terminal based on predetermined configuration information comprises:

determining the MTTD supported by the terminal based on predetermined configuration information, a receive timing difference (RTD) and a cyclic prefix (CP).

8. The method according to claim 7, wherein the predetermined configuration information comprises first predetermined configuration information and second predetermined configuration information; and determining the MTTD supported by the terminal based on the predetermined configuration information, the TRD and the CP comprises:

determining the MTTD based on the first predetermined configuration information in response the RTD being greater than the CP;

or,

determining the MTTD based on the second predetermined configuration information in response the RTD being smaller than or equal to the CP.

9. The method according to claim 8, wherein the first predetermined configuration information indicates a mapping relationship between a frequency range and the MTTD.

10. The method according to claim 8, wherein the second predetermined configuration information indicates a mapping relationship between a frequency range, a predetermined value and a cyclic prefix (CP), and the predetermined value and the cyclic prefix are used to determine a corresponding MTTD.

11. The method according to claim 10, wherein the method further comprises:

determining the CP based on a subcarrier spacing of data transmission and a CP type.

12. The method according to claim 4, wherein the MTTD is determined based on an operating frequency range; or, the MTTD is determined based on a current operating frequency band.

13. A method for scheduling multiple transmission reception point (mTRP) transmission, wherein the method is performed by a terminal, and the method comprises:

sending terminal capability information to an access network device;

wherein the terminal capability information indicates a maximum transmit timing difference (MTTD) for scheduling a transmission operation of multiple downlink control information (M-DCI) of the mTRP of the terminal.

14. The method according to claim 13, wherein the MTTD is determined based on an operating frequency range; or, the MTTD is determined based on a current operating frequency band.

15. An apparatus for scheduling multiple transmission reception point (mTRP) transmission, wherein the apparatus comprises a module adapted to execute the method according to any of claims 1 to 14.