What is claimed is:

1. A data processing method, comprising:

reporting, by a terminal device, a switching time capability to a network device, wherein the switching time capability is used for data scheduling of the terminal device performed by the network device;

wherein the terminal device supports dual connection (DC), and wherein the switching time capability comprises switching time from a first network to a second network for the terminal device, and/or switching time from the second network to the first network for the terminal device, and the network device comprises a first network device and/or a second network device.;

wherein one of the first network and the second network is Evolved Universal Terrestrial Radio Access (E-UTRA) network and the other is New Radio (NR) network; the terminal device supports dual connection from E-UTRA to NR (NE-DC), or dual connection from NR to E-UTRA (EN-DC);

further comprising:

acquiring, by the terminal device, time domain positions of the switching time sent by the network device;

wherein the time domain positions of the switching time are determined according to an anchor network device;

wherein when the anchor network device is located in the first network, the time domain positions of the switching time are located in the time domain of the second network; or when the anchor network device is located in the second network, the time domain positions of the switching time are located in the time domain of the first network.

2. The method of claim 1, wherein the reporting by the terminal device the switching time capability to the network device comprises:

reporting, by the terminal device, an identifier in a switching time set corresponding to the switching time to the network device.

3. The method of claim 2, wherein the switching time set comprises at least two switching

times.

4. The method of claim 3, wherein ~~any~~ each one of the at least two switching times corresponds to one switching time capability.

5. The method of claim 1, wherein the switching time capability comprises a first type of switching time capability, and a fourth type of switching time capability;

a maximum switching time corresponding to the first type of switching time capability is less than a first threshold; and

a maximum switching time corresponding to the fourth switching time capability is greater than ~~the~~ a third threshold.

~~6. The method of any one of claims 1 to 5, further comprising:~~

~~acquiring, by the terminal device, time domain positions of the switching time sent by the network device.~~

~~7. The method of claim 6, wherein the time domain positions of the switching time are all located in the second network.~~

~~8. The method of claim 6, wherein the time domain positions of the switching time are determined according to an anchor network device;~~

~~wherein when the anchor network device is located in the first network, the time domain positions of the switching time are located in the second network; or~~

~~when the anchor network device is located in the second network, the time domain positions of the switching time are located in the first network.~~

~~9~~6. The method of any one of claims 1 to ~~8~~5, further comprising:

acquiring, by the terminal device, the configuration of the terminal device transmitted ~~performed~~ by the network device;

wherein the configuration comprises:

when switching time in the first network is greater than ~~transition time~~transition period of the first network, the terminal device transmits data within the switching time; and

when the switching time in the first network is less than the ~~transition time~~transition period

of the first network, the terminal device does not transmit the data within the switching time.

~~10~~7. The method of claim 2 or 3, wherein the switching time set is an increasing sequence.

~~11~~8. A data processing method, comprising:

receiving, by the network device, a switching time capability sent by a terminal device, wherein the switching time capability is used by the network device to perform a data scheduling on the terminal device;

wherein the terminal device supports dual connection (DC), and wherein the switching time capability comprises: switching time from a first network to a second network for the terminal device, and/or switching time from the second network to the first network for the terminal device~~.~~;

wherein one of the first network and the second network is Evolved Universal Terrestrial Radio Access (E-UTRA) network and the other is New Radio (NR) network; the terminal device supports dual connection from E-UTRA to NR (NE-DC), or dual connection from NR to E-UTRA (EN-DC);

further comprising:

determining, by the network device, time domain positions of the switching time;

wherein the time domain positions of the switching time are determined according to an anchor network device;

wherein when the anchor network device is located in the first network, the time domain positions of the switching time are located in the time domain of the second network; or

when the anchor network device is located in the second network, the time domain positions of the switching time are located in the time domain of the first network.

~~12~~9. The method of claim ~~11~~8, wherein the receiving by the network device the switching time capability sent by the terminal device comprises:

receiving, by the network device, an identifier in a switching time set corresponding to the switching time sent by the network device.

~~13~~10. The method of claim ~~12~~9, wherein the switching time set comprises at least two

switching times.

~~14~~11. The method of claim ~~11~~8, wherein the switching time capability comprises a first type of switching time capability, and a fourth type of switching time capability;

a maximum switching time corresponding to the first type of switching time capability is less than a first threshold; and

a maximum switching time corresponding to the fourth switching time capability is greater than ~~the~~ a third threshold.

~~15. The method of any one of claims 11 to 14, further comprising:~~

~~determining, by the network device, time domain positions of the switching time.~~

~~16. The method of claim 15, wherein the time domain positions of the switching time are all located in the second network.~~

~~17. The method of claim 15, wherein the time domain positions of the switching time are determined according to an anchor network device;~~

~~wherein when the anchor network device is located in the first network, the time domain positions of the switching time are located in the second network; or~~

~~when the anchor network device is located in the second network, the time domain positions of the switching time are located in the first network.~~

~~18~~12. The method of any one of claims ~~11~~ 8 to ~~17~~11, further comprising:

determining, by the network device, the configuration of the terminal device;

wherein the configuration comprises:

when the switching time in the first network is greater than ~~transition time~~transition period of the first network, the terminal device transmits data within the switching time; and

when the switching time in the first network is less than the ~~transition time~~transition period of the first network, the terminal device does not transmit the data within the switching time.

~~19~~13. The method of claim ~~12~~ 9 or ~~13~~10, wherein the switching time set is an increasing sequence.

~~20~~14. A terminal device, configured to execute the method of any one of claims 1 to 7.

~~comprising:~~

~~a first sending unit, configured to report a switching time capability to a network device, wherein the switching time capability is used for the network device to perform a data scheduling on the terminal device;~~

~~wherein the switching time capability comprises switching time from a first network to a second network for the terminal device, and/or switching time from the second network to the first network for the terminal device.~~

15. A network device, configured to execute the method of any one of claims 8 to 13.