CLAIMS

1. A method for uplink signal transmission, comprising:

receiving, by a terminal device, first information transmitted by a network device, wherein the first information is configured to indicate a target sounding signal group in multiple sounding signals transmitted to the network device by the terminal device, the target sounding signal group comprising multiple target sounding signals, and the first information is further used for the terminal device to determine a beam group for transmitting uplink data to the network device, the beam group comprising multiple beams; and

transmitting, by the terminal device, the uplink data to the network device by using the beam group;

wherein each of the multiple target sounding signals is a sounding signal in a predefined sounding signal group; and the first information is configured to indicate indexes of the multiple target sounding signals in the predefined sounding signal group.

2. The method of claim 1, wherein transmitting, by the terminal device, the uplink data to the network device by using the beam group comprises:

transmitting, by the terminal device, the uplink data to the network device by using a beam group corresponding to the target sounding signal group.

3. A terminal device, comprising:

a receiving module, configured to receive first information transmitted by a network device, wherein the first information is configured to indicate a target sounding signal group in multiple sounding signals transmitted to the network device by the terminal device, the target sounding signal group comprising multiple target sounding signals, and the first information is further used for the terminal device to determine a beam group for transmitting uplink data to the network device, the beam group comprising multiple beams; and

a transmitting module, configured to transmit the uplink data to the network device by using the beam group;

wherein each of the multiple target sounding signals is a sounding signal in a predefined sounding signal group; and the first information is configured to indicate indexes of the multiple target sounding signals in the predefined sounding signal group.

4. The terminal device of claim 3, wherein the transmitting module is configured to:

transmit the uplink data to the network device by using a beam group corresponding to the target sounding signal group.

5. The terminal device of claim 3, wherein the first information is bitmap information, and the bitmap information is configured to indicate that the multiple beams are multiple beams in a predefined beam group.

6. The terminal device of claim 3, wherein the first information is configured to indicate an index of the beam group in predefined multiple beam groups.

7. The terminal device of any one of claims 3 to 5, further comprising:

a processing module, configured to perform beamforming on the uplink data based on a beamforming weight corresponding to the beam group to obtain the beamformed data; and

wherein the transmitting module is configured to transmit the beamformed uplink data to the network device.

8. The terminal device of any one of claims 3 to 7, wherein the transmitting module is configured to:

transmit the uplink data by using the multiple beams in the beam group, wherein the uplink data transmitted on the multiple beams are transmitted on different time frequency resources.

9. The terminal device of any one of claims 3 to 8, wherein a first beam in the target beam group is used for first-time transmission of the uplink data; and beams in the target beam group other than the first beam are used for possible Hybrid Automatic Repeat Request, HARQ, retransmission of the uplink data.