

CLAIMS

1. A method for reporting information, performed by a terminal, comprising:
sending channel state information to a network device, wherein the channel state information indicates phase information and/or amplitude information of at least two access network devices;
wherein the phase information comprises a first-type phase coefficient and a second-type phase coefficient, and the first-type phase coefficient and the second-type phase coefficient are used to determine a phase of each element in each access network device; or wherein the phase information comprises phases of different elements in the at least two access network devices;
wherein the amplitude information comprises a first-type amplitude coefficient and a second-type amplitude coefficient, and the first-type amplitude coefficient and the second-type amplitude coefficient are used to determine an amplitude of each element in each access network device; or
wherein the amplitude information comprises amplitudes of different elements in the at least two access network devices.

2. The method according to claim 1, wherein the first-type phase coefficient indicates a phase coefficient corresponding to each of the at least two access network devices, and the second-type phase coefficient indicates a phase coefficient corresponding to each element in each access network device.

3. The method according to claim 1, wherein an interval between phases corresponding to any two adjacent elements in the at least two access network devices is a target interval.

4. The method according to any one of claims 1 to 3, wherein the first-type amplitude coefficient indicates an amplitude coefficient corresponding to each of the at least two access network devices, and the second-type amplitude coefficient indicates an amplitude coefficient corresponding to each element in each access network device.

5. The method according to claim 4, wherein
a product of the first-type amplitude coefficient and the second-type amplitude coefficient is an amplitude corresponding to each element in the access network device;
or

a sum of the first-type amplitude coefficient and the second-type amplitude coefficient is an amplitude corresponding to each element in the access network device.

6. The method according to claim 4 or 5, wherein

an interval between second-type amplitude coefficients corresponding to two adjacent elements in each of the at least two access network devices is a second interval, and/or an interval between second-type amplitude coefficients corresponding to two adjacent elements of two adjacent two access network devices is the second interval.

7. The method according to any one of claims 4 to 6, wherein the amplitude information is at least one of a wideband amplitude coefficient or a narrowband amplitude coefficient.

8. The method according to any one of claims 1 to 7, wherein an element in each access network device comprises one or more of:

- an antenna port;
- a beam;
- a wideband;
- a subband;
- a frequency domain unit; or
- a time domain unit.

9. The method according to any one of claims 1 to 8, wherein an identifier corresponding to the access network device is indicated by at least one of a resource index, a resource subset index, a resource set index, a control resource set pool index, an antenna port index, a transmission reception point (TRP) index, a transmission point (TP) index, a remote radio header (RRH) index, an antenna panel index.

10. A method for receiving information, performed by a network device, comprising:

receiving channel state information sent by a terminal, wherein the channel state information indicates phase information and/or amplitude information of at least two access network devices;

wherein the phase information comprises a first-type phase coefficient and a second-type phase coefficient, and the first-type phase coefficient and the second-type phase coefficient are

used to determine a phase of each element in each access network device; or wherein the phase information comprises phases of different elements in the at least two access network devices;

wherein the amplitude information comprises a first-type amplitude coefficient and a second-type amplitude coefficient, and the first-type amplitude coefficient and the second-type amplitude coefficient are used to determine an amplitude of each element in each access network device; or wherein the amplitude information comprises amplitudes of different elements in the at least two access network devices.

11. The method according to claim 10, wherein the first-type phase coefficient indicates a phase coefficient corresponding to each of the at least two access network devices, and the second-type phase coefficient indicates a phase coefficient corresponding to each element in each access network device.

12. The method according to claim 10, wherein an interval between phases corresponding to any two adjacent elements in the at least two access network devices is a target interval.

13. The method according to any one of claims 10 to 12, wherein the first-type amplitude coefficient indicates an amplitude coefficient corresponding to each of the at least two access network devices, and the second-type amplitude coefficient indicates an amplitude coefficient corresponding to each element in each access network device.

14. The method according to claim 13, wherein
a product of the first-type amplitude coefficient and the second-type amplitude coefficient is an amplitude corresponding to each element in the access network device;
or
a sum of the first-type amplitude coefficient and the second-type amplitude coefficient is an amplitude corresponding to each element in the access network device.

15. The method according to claim 13 or 14, wherein an interval between second-type amplitude coefficients corresponding to two adjacent elements in each of the at least two access network devices is a second interval, and/or an interval between second-type amplitude coefficients corresponding to two adjacent elements of two adjacent two access network devices

is the second interval.

16. The method according to any one of claims 13 to 15, wherein the amplitude information is at least one of a wideband amplitude coefficient or a narrowband amplitude coefficient.

17. The method according to any one of claims 10 to 16, wherein an element in each access network device comprises one or more of:

- an antenna port;
- a beam;
- a wideband;
- a subband;
- a frequency domain unit; or
- a time domain unit.

18. The method according to any one of claims 10 to 17, wherein an identifier corresponding to the access network device is indicated by at least one of a resource index, a resource subset index, a resource set index, a control resource set pool index, an antenna port index, a transmission reception point (TRP) index, a transmission point (TP) index, a remote radio header (RRH) index, an antenna panel index.

19. A terminal, comprising:
a processor; and
a transceiver coupled to the processor;
wherein the processor is configured to perform the method for reporting the information according to any one of claims 1 to 9.

20. A network device, comprising:
a processor; and
a transceiver coupled to the processor;
wherein the processor is configured to perform the method for receiving the information according to any one of claims 10 to 18.