CLAIMS

1. An interaction method, applied to a terminal device, comprising:

sending a multimedia conference starting request to a server in response to detection of a triggering operation on a multimedia conference control, wherein the server starts a multimedia conference in response to determination of starting the multimedia conference based on the multimedia conference starting request; and

sending conference live confirmation information to the server in response to detection of a confirmation operation on a conference live confirmation control, wherein the server, in response to receipt of the conference live confirmation information and in response to receipt of a multimedia conference stream, generates a live stream based on the received multimedia conference stream, and the multimedia conference stream is sent to the server by a participant of the multimedia conference;

the server starts a multimedia conference in response to determination of starting the multimedia conference based on the multimedia conference starting request, comprising:

the server verifies the multimedia conference starting request in response to receipt of the multimedia conference starting request, and determines to start the multimedia conference based on the multimedia conference starting request in response to determination that the conference starting condition is satisfied.

2. The method according to claim 1, further comprising:

generating, by the server, live access information in response to receipt of the conference live confirmation information, and sending, by the server, the live access information to at least one of: the participant, a target audience, and a target network resource output terminal, wherein live access information indicates a manner in which the live stream is acquired.

3. The method according to claim 2, further comprising:

displaying the live access information sent by the server.

4. The method according to claim 3, further comprising:

sending, in response to detection of a predefined sharing confirmation operation, a sharing request comprising an identification of a sharing confirmation object to the server, wherein the

server, in response to receipt of the sharing request, sends the live access information to the sharing object, and an identification of the sharing object indicates a sharing object targeted by the sharing confirmation operation.

5. The method according to claim 4, wherein a live stream request object, in response to receipt of the live access information, sends a live stream acquisition request to the server based on the live access information in response to detection of a trigger operation for the live access information.

6. The method according to claim 5, wherein the server determines based on the live stream acquisition request whether to send the live stream to the live stream request object, and plays the live stream in response to receipt of the live stream.

7. The method according to claim 5, wherein the live stream request object displays live failure indication information in response to failure to receive the live stream.

8. The method according to claim 2, wherein the target network resource output terminal comprises at least one of: a target webpage, and a preset interface of a target application.

9. The method according to claim 2, wherein the target audience comprises a preconfigured user set.

10. The method according to claim 1, wherein the server comprises a conference server and a live server.

11. The method according to claim 10, wherein the conference server:

generates the live stream based on the received multimedia conference stream in response to receipt of the conference live confirmation information and in response to receipt of the multimedia conference stream; and

sends the generated live stream to the live server.

12. The method according to claim 10, wherein

the conference server sends the multimedia conference stream to the live server based on the received multimedia conference stream in response to receipt of the conference live confirmation information and in response to receipt of the multimedia conference stream, and the live server generates the live stream based on the received multimedia conference stream.

13. The method according to claim 1, wherein generating, by the server, a live stream

based on the received multimedia conference stream, comprising:

acquiring the multimedia conference stream sent by the participant;

determining a participant currently speaking; and

generating the live stream based on the received multimedia conference stream and relevant information of the participant currently speaking.

14. The method according to claim 1, wherein the multimedia conference comprises at least one of: an audio conference and an audio-video conference.

15. The method according to claim 14, wherein the multimedia conference comprises an audio-video conference, and the live stream comprises at least one of: conference screen shared information, multimedia information of the participant, and related information of a participant currently speaking.

16. The method according to claim 15, wherein conference screen shared information is a predefined category of information in shared information of the participant.

17. The method according to claim 1, further comprising: display the conference live confirmation control in response to detection of a triggering operation on a preset live request control.

18. The method according to claim 1, further comprising:

displaying the conference live confirmation control in response to receipt of live request information sent by another participant; and/or

displaying the conference live confirmation control in response to determination that a preset first conference condition is satisfied.

19. The method according to claim 18, wherein the first conference condition comprises at least one of:

the number of the participant of the multimedia conference is greater than a preset first threshold;

a freezing rate of the multimedia conference is greater than a preset first freezing rate threshold; and

a delay rate of the multimedia conference is greater than a preset first delay rate threshold.

20. The method according to claim 1, further comprising:

displaying the conference live confirmation control in response to receipt of live inquiry information sent by the server, wherein the live inquiry information is generated by the server in response to determination that a preset second conference condition is satisfied.

21. The method according to claim 20, wherein the second conference condition comprises at least one of:

the number of the participant of the multimedia conference is greater than a preset second threshold;

a freezing rate of the multimedia conference is greater than a preset second freezing rate threshold; and

a delay rate of the multimedia conference is greater than a preset second delay rate threshold.

22. The method according to claim 1, wherein timing at which the conference live confirmation control is displayed comprises at least one of: before starting the multimedia conference or during the multimedia conference.

23. The method according to claim 3, wherein the displaying the received live access information comprises:

transmitting the live access information in a calendar event indicating the multimedia conference in response to receipt of the live access information and in response to determination that the multimedia conference is not started; and

displaying the live access information in a display interface of the calendar event.

24. The method according to claim 3, wherein the displaying the received live access information comprises:

displaying the live access information on a multimedia conference interface in response to receipt of the live access information and in response to determination that the multimedia conference is in progress.

25. The method according to claim 4, wherein before the sending, in response to detection of a predefined sharing confirmation operation, a sharing request comprising an identification of a sharing object to the server, the method further comprises:

displaying an identification of a candidate sharing object in response to detection of a predefined sharing starting operation, wherein the identification of the candidate sharing object is determined based on a preset shareable user range and/or a user associated with the participant; and

determining, in response to detection of a predefined selection operation, an identification of a candidate sharing object targeted by the selection operation as the identification of the sharing object.

26. The method according to claim 25, wherein the shareable user range is determined based on at least one of: a pre-established organizational structure and a pre-established relationship between users.

27. The method according to claim 4, wherein the sharing object generates and displays forwarding restriction information in response to detection of a forwarding operation for the live access information, wherein the forwarding restriction information indicates that there is no permission to share the live access information.

28. The method according to claim 4, wherein a presentation style of the live access information is set depending on permission of the sharing object.

29. The method according to claim 28, wherein the permission of the sharing object comprises restricting to forward, wherein the sharing object encapsulates indication information of the live stream into a card for display, and the card is provided with a live stream request control rather than a forwarding control.

30. The method according to claim 6, wherein the live stream acquisition request comprises a user identification; and the determining, by the server, whether to send the live stream to the sharing object based on the live stream acquisition request comprises: determining, by the server based on the user identification in the live stream acquisition request, whether to return the live stream.

31. The method according to claim 30, wherein the determining, by the server based on the user identification in the live stream acquisition request, whether to return the live stream comprises: determining, by the server in response to receipt of the live stream acquisition request comprising the user identification, whether to return the live stream based on a pre-generated whitelist.

32. The method according to claim 31, further comprising:

sending sharing object range information to the server, wherein the server determines a sharing object range based on the received sharing object range information, and generates the whitelist based on a user identification in the sharing object range.

33. The method according to claim 32, wherein the sharing object range information comprises at least one of: a group identification and an organization identification.

34. The method according to claim 31, wherein the whitelist comprises the identification of the sharing object in the sharing request received by the server.

35. The method according to claim 4 or 5, wherein the live access information comprises at least one of:

a live address for indicating a live interface for playing the live stream; and

a conference identification indicating the multimedia conference.

36. The method according to claim 35, wherein the playing, by the sharing object, the live stream in response to receipt of the live stream comprises at least one of:

playing, by the sharing object in response to receipt of the live stream obtained based on the live address or the conference identification, the live stream at an address indicated by the live address and/or the conference identification.

37. The method according to claim 35, wherein the playing, by the sharing object, the live stream in response to receipt of the live stream comprises:

displaying, by the sharing object in response to receipt of a live interface obtained based on the live address, the live interface to play the live stream.

38. The method according to claim 5, further comprising:

sending, by the server, live situation information to the participant, wherein the live situation information indicates relevant situation of live broadcast started based on the multimedia conference, and the method further comprises: displaying the live situation information on the multimedia conference interface.

39. The method according to claim 38, wherein the live situation information comprises at least one of: the number of users viewing the live broadcast, and information of a user viewing

the live broadcast, wherein the number of users viewing the live broadcast is generated based on the number of terminals playing the live stream.

40. The method according to claim 5, wherein a live stream playing interface comprises an information input control for receiving feedback information, wherein the server, in response to receipt of the feedback information sent by the sharing object, sends the feedback information to the participant, wherein the method further comprises: displaying the feedback information on the multimedia conference interface.

41. A permission control method, comprising:

receiving a live stream acquisition request; and

determining whether to return a live stream based on the live stream acquisition request;

verifying the multimedia conference starting request in response to receipt of the multimedia conference starting request, and determining to start the multimedia conference based on the multimedia conference starting request in response to determination that the conference starting condition is satisfied.

42. The method according to claim 41, further comprising:

generating live access information; and

sending the live access information to a candidate audience.

43. The method according to claim 42, wherein the candidate audience, in response to detection of a predefined sharing starting operation for the live access information:

presents an identification of a candidate sharing object, wherein the identification of the candidate object is determined based on a preset shareable user range;

determines, in response to detection of a predefined selection operation, an identification of a candidate sharing object targeted by the selection operation as the identification of the sharing object; and

sends a sharing request comprising the identification of the sharing object to the server.

44. The method of claim 43, wherein the shareable user range is determined based on at least one of: a pre-established organizational structure and a pre-established relationship between users.

45. An interaction apparatus, comprising:

a first sending unit configured to send a multimedia conference starting request to a server in response to detection of a triggering operation on a multimedia conference control, wherein the server starts a multimedia conference in response to determination of starting the multimedia conference based on the multimedia conference starting request; and

a second sending unit configured to send conference live confirmation information to the server in response to detection of a confirmation operation on a conference live confirmation control, wherein the server in response to receipt of the conference live confirmation information and in response to receipt of a multimedia conference stream, generates a live stream based on the received multimedia conference stream, and the multimedia conference stream is sent to the server by a participant of the multimedia conference;

the server starts a multimedia conference in response to determination of starting the multimedia conference based on the multimedia conference starting request, comprising:

the server verifies the multimedia conference starting request in response to receipt of the multimedia conference starting request, and determines to start the multimedia conference based on the multimedia conference starting request in response to determination that the conference starting condition is satisfied.

46. A permission control apparatus, comprising:

a receiving module configured to receive a live stream acquisition request; and

a determining module configured to determine whether to return a live stream based on the live stream acquisition request;

a verifying module configured to verify the multimedia conference starting request in response to receipt of the multimedia conference starting request, and determine to start the multimedia conference based on the multimedia conference starting request in response to determination that the conference starting condition is satisfied.

47. The method according to claim 43, wherein the receiving information of the sharing user sent by the live server, so that the information of the sharing user is displayed on a first client terminal of each user participating in the multimedia conference comprises:

sending the information of the sharing user to at least one user participating in the

multimedia conference, so that the first terminal device of the user participating in the multimedia conference displays the information of the sharing user as at least one of: a floating window, a pop-up window, a preset window area of the multimedia conference, and a bullet chat.

48. An electronic device comprising:

one or more processors;

a storage device configured to store one or more programs which, when being executed by the one or more processors, cause the one or more processors to implement the method according to any one of claims 1 to 40, or the method according to any one of claims 41 to 44, 47.

49. A computer-readable medium storing a computer program which, when being executed by a processor, implements the method according to any one of claims 1 to 40, or the method according to any one of claims 41 to 44, 47.