CHANNEL-BASED VOICE CALL METHOD AND APPARATUS

CROSS-REFERENCE TO RELATED APPLICATION

[0001] The present disclosure is a national stage of international application No. PCT/CN2019/119965, filed on November 21, 2019, which claims priority to Chinese Patent Application No. 201811456014.9, filed on November 30, 2018 and titled "CHANNEL-BASED VOICE CALL METHOD AND APPARATUS", which is incorporated herein by reference in its entirety.

TECHNICAL FIELD

[0002] The present disclosure relates to the field of a voice call technology, and more particularly to a channel-based voice call method and apparatus.

BACKGROUND

[0003] Voice call is one of indispensable technologies in modern society. A person can control a client A (which may be a client on a mobile phone, a tablet computer, or a computer) to make a voice call with a person on another client B, which is more convenient than a traditional method of making a telephone call.

[0004] In the past, a voice call was mainly implemented through a VOIP protocol. This method is relatively low in bit rate and relatively poor in sound quality, and the transmission protocol is mainly transmitted through an RTP protocol, which is easy to lose packets.

[0005] Therefore, there is an urgent need to propose a new voice call method to solve technical problems of low bit rate, relatively poor sound quality and easy packet loss of traditional voice calls.

SUMMARY

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[0007] According to a first aspect of the present disclosure, a channel-based voice call method is provided. The method includes:

[0008] accepting a matching request of a client, acquiring a matching result of the client from a matching pool, and returning the matching result to the client; and

[0009] acquiring a call matching acceptance instruction of the client, allocating a temporary channel and locking the temporary channel, and sending a successfully accepted matching message, a temporary channel number and a channel password to the client, such that the

client enters the temporary channel based on the successfully accepted matching message, the temporary channel number and the channel password to make a call.

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[0024] According to a second aspect of the present disclosure, a channel-based voice call apparatus is provided, which includes a processor and a memory, wherein

[0025] the memory is configured to store a program code therein and transmit the program code to the processor; and

[0026] the processor is configured to execute the channel-based voice call method according to the first aspect based on an instruction in the program code.

[0027] According to a third aspect of the present disclosure, a computer-readable storage medium is provided. The storage medium is configured to store a program code therein, the program code being configured to execute the channel-based voice call method according to the first aspect.

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BRIEF DESCRIPTION OF THE DRAWINGS

[0030] To describe the embodiments of the present disclosure more clearly, the following briefly introduces the accompanying drawings required for describing the embodiments or the prior art. Apparently, the accompanying drawings in the following description show merely some embodiments of the present disclosure, and a person of ordinary skill in the art may still derive other drawings from these accompanying drawings without creative efforts.

[0031] FIG. 1 is a schematic diagram of a system applicable to a channel-based voice call method provided by the present disclosure;

CLAIMS

What is claimed is:

1. A channel-based voice call method, comprising:

accepting a matching request of a client, acquiring a matching result of the client from a matching pool, and returning the matching result to the client;

acquiring a call matching acceptance instruction of the client, allocating a temporary channel and locking the temporary channel, and sending a successfully accepted matching message, a temporary channel number and a channel password to the client, such that the client enters the temporary channel based on the successfully accepted matching message, the temporary channel number and the channel password to make a call; and

detecting whether the number of connected clients in the temporary channel is less than a preset value; and if the number of connected clients in the temporary channel is less than the preset value, removing the clients from the temporary channel, recovering and unlocking the temporary channel.

2. The channel-based voice call method according to claim 1, wherein said acquiring the matching result of the client from the matching pool specifically comprises:

putting a client ID into the matching pool based on the matching request of the client, matching the client ID according to a matching rule, selecting a matching result of the client and sending the matching result to the client.

3. The channel-based voice call method according to claim 1, wherein said returning the matching result to the client comprises:

sending a matched client ID and corresponding client information to the client, such that the client displays matched client information.

4. The channel-based voice call method according to claim 1, after returning the matching result to the client, further comprising:

removing client IDs in the matching result from the matching pool.

5. The channel-based voice call method according to claim 1, after the client enters the temporary channel to make a call, further comprising:

receiving call heartbeats sent by the client at a preset frequency; and

determining whether the client is still connected based on the call heartbeats;

wherein, if a call heartbeat is not received within a preset time range, it is determined that the client corresponding to the call heartbeat that is not received has been disconnected, and information indicating that the client has been disconnected is sent to other clients in the temporary channel.

6. The channel-based voice call method according to claim 1, after the client enters the temporary channel to make a call, further comprising:

receiving a normal call termination instruction sent by the client, and sending information indicating that the client has terminated the call to other clients in the temporary channel.

7. The channel-based voice call method according to claim 1, after returning the matching result to the client, further comprising:

receiving a call rejection instruction sent by the client and performing re-matching.

8. A channel-based voice call apparatus, comprising a processor and a memory, wherein

the memory is configured to store a program code therein and transmit the program codes to the processor; and

the processor is configured to execute the channel-based voice call method according to any one of claims 1 to 7 based on an instruction in the program code.

9. A computer-readable storage medium, being configured to store a program code

therein, the program code being configured to execute the channel-based voice call method according to any one of claims 1 to 7.