METHOD AND DEVICE FOR ENCRYPTING AND DECRYPTING SOFTPHONE, AND COMPUTER-READABLE STORAGE MEDIUM

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] The present application is the National Stage of International Application No. PCT/CN2018/075202, filed February 05, 2018, which claims the benefit of China Patent Application No. 201710933040.5, filed October 09, 2017 with the State Intellectual Property Office and entitled "Method and Device for Encrypting and Decrypting Softphone, and Computer-readable Storage Medium", the entirety of which is hereby incorporated herein by reference.

TECHNICAL FIELD

[0002] The present disclosure relates to the field of network communication technology, and more particularly relates to a method and a device for encrypting and decrypting softphone, as well as a computer-readable storage medium.

BACKGROUND

[0003] A softphone is also called an IP phone, which can transmit voice by the Internet Protocol. As long as you are on the same network, you can make calls without restrictions. And it can support multiple call modes, such as PC to PC, PC to phone, and phone to PC, etc. At present, many customer service representatives of service system use soft phones, and when customer service representatives are making a phone call, they get the encrypted phone number stored in the local system server and send the encrypted phone number to a phone-platform server through public network with corresponding secret key, for the phone-platform server to make a phone call after decrypting the encrypted phone number. There is a risk of being intercepted when encrypted phone numbers and keys are sent over the public network; and at the other hand, the telephone platform server may have a leaking risk when decrypting the encrypted phone number, and the personal information of the customer may be leaked.

according to the preset encryption scheme.

7. The method of claim 6, further comprising, subsequent to the telephone platform server encrypts the call recording corresponding to the plain text telephone number according to the preset encryption scheme:

receiving encrypted call recordings transmitted by the telephony platform server through a private network; and

storing the encrypted call recording after adding a tag to it, and sending the tag to the front end of the local system.

8. The method of claim 7, further comprising, subsequent to the operation of storing the encrypted call recording after adding a tag to it:

receiving a query instruction sent by the front end of the local system, and acquiring an encrypted call recording corresponding to the query instruction, as well as a decryption scheme corresponding to the preset encryption scheme; and

transmitting the encrypted call recording and decryption scheme to a local system front end for the local system front end to decrypt the encrypted call recording through a decryption scheme.

9. A device for encrypting and decrypting softphone, the device comprising a memory, a processor, a communication bus, and a softphone encrypting and decrypting program stored in the memory;

the communication bus being configured to facilitate a communication connection between the processor and the memory;

the processor being configured to execute the softphone encrypting and decrypting program to perform the following operations:

in response to a softphone call instruction, obtaining a phone number corresponding to the call instruction, and encrypting the phone number to generate a cipher text phone number;

sending the cipher text phone number to the phone-platform server for the phone-platform server to return the cipher text phone number to the local-system server through the private network; and

decrypting the ciphertext phone number to obtain a plaintext phone number at local-system server, and sending the plaintext phone number to the phone-platform