

CLAIMS

1. A computer-implemented method for linking to an account, the computer-implemented method comprising:

receiving, by an uncertified server, a linking request sent by a terminal device, wherein the linking request corresponds to a user account logged in by a user to the uncertified server (S301);

returning a predetermined instruction to the terminal device based on the linking request, so the terminal device sends a real service account to a certified server based on the predetermined instruction, and further the certified server generates a virtual service account corresponding to the real service account and returns the virtual service account to the terminal device (S303);

receiving the virtual service account sent by the terminal device (S304); and

linking the virtual service account to the user account (S306), wherein returning the predetermined instruction to the terminal device based on the linking request comprises:

signing a pre-stored license certificate of the certified server based on the license certificate, to obtain a signed license certificate; and

returning the predetermined instruction comprising the signed license certificate to the terminal device, so the terminal device sends the signed license certificate and the real service account to the certified server, and further the certified server generates the virtual service account corresponding to the real service account after successfully performing verification on the signed license certificate, and returns the virtual service account to the terminal device.

2. A computer-implemented method for linking to an account, the computer-implemented method comprising:

receiving, by an uncertified server, a linking request sent by a terminal device, wherein the linking request corresponds to a user account logged in by a user to the uncertified server (S301);

returning a predetermined instruction to the terminal device based on the linking request, so the terminal device sends a real service account to a certified server based on the predetermined instruction, and further the certified server generates a virtual service account corresponding to the real service account and returns the virtual service account to the terminal device (S303);

receiving the virtual service account sent by the terminal device (S304);

linking the virtual service account to the user account (S306); and

receiving, by the certified server, the real service account and a signed license certificate that are sent by the terminal device, wherein the signed license certificate is comprised in the predetermined instruction and sent by the uncertified server to the terminal device.

3. The computer-implemented method of claim 1 or 2, wherein the virtual service account is generated based on a predetermined generation rule.

4. The computer-implemented method of claim 1 or 2, wherein the virtual service account corresponds to the real service account and the virtual service account generated by the certified server is different each time.

5. The computer-implemented method of claim 2, further comprising:
performing a verification on the signed license certificate; and
determining that the verification succeeds.

6. The computer-implemented method of claim 1 or 2, further comprising:
sending the virtual service account and the service request to a certified server, so the certified server determines a pre-stored real service account corresponding to the virtual service account based on the virtual service account, and further the certified server performs service processing based on the real service account and the service request.

7. The computer-implemented method of claim 1 or 2, wherein the uncertified server comprises a merchant system and the linking request that corresponds to a user account logged in by a user to the merchant system.

8. The computer-implemented method of claim 7, wherein the certified server comprises a payment system.

9. The computer-implemented method of claim 8, wherein the real service account comprises a real bank card number and the virtual service account comprises a virtual bank card number corresponding to the real bank card number.

10. The computer-implemented method of any one of claims 1 to 9, wherein the virtual service account is used to establish a mapping relationship with the real service account stored in the certified server.

11. A device for linking to an account, the device comprising a plurality of modules configured to perform the computer-implemented method of any one of claims 1 to 10.