

CLAIMS

What is claimed is:

1. An identity authentication method, comprising:

receiving a user identity authentication request sent by a client of a data authentication platform, wherein the user identity authentication request comprises user authentication information and user identification information, and a server of the data authentication platform pre-stores user authentication information and a registration number and a secret token that correspond to the user identification information;

obtaining, according to the user identification information, the user authentication information pre-stored in the server of the data authentication platform;

matching the user authentication information in the received user identity authentication request with the obtained user authentication information pre-stored in the server of the data authentication platform;

receiving, when the matching succeeds, a confirmation result of the user for obtaining registration number, wherein the confirmation result is sent by the client of the data authentication platform;

obtaining the registration number and the corresponding secret token of the user according to the received confirmation result; and

sending the obtained registration number and corresponding secret token of the user to a third-party organization server.

2. The identity authentication method according to claim 1, wherein the obtaining a registration number and a corresponding secret token of the user comprises:

obtaining each registration number and each corresponding secret token of the user; or

sending each obtained registration number of the user to the client of the data authentication platform and obtaining a registration number selected by the user and a secret token corresponding to the registration number selected by the user.

3. The identity authentication method according to claim 1, wherein the user is a pre-registered user; and

before the receiving a user identity authentication request sent by a client of a data authentication platform, the method further comprises:

respectively generating irreversible unique secret tokens by using one or more registration numbers of one or more pre-registered users, and sending the generated secret tokens to the third-party organization server in batches.

4. The identity authentication method according to claim 1, wherein the server of the data authentication platform pre-stores a unique ID corresponding to the user identification information; and

after the receiving a user identity authentication request sent by a client of a data authentication platform, the method further comprises: obtaining, according to the unique ID, the user authentication information pre-stored in the server of the data authentication platform.

5. A number saving and sending method, comprising:

receiving a registration number and a corresponding secret token of a user sent by a server of a data authentication platform;

matching the received secret token corresponding to the registration number of the user with pre-stored secret tokens sent by the server of the data authentication platform in batches, wherein the secret tokens sent in batches are associated with pre-stored user identification information;

saving the received registration number of the user when the matching succeeds, wherein the saved registration number of the user is associated with the pre-stored user identification information of the user;

receiving a user number binding request sent by a third-party organization client, wherein the user number binding request comprises user authentication information and user identification information;

obtaining, according to the user identification information, user authentication information pre-stored in a third-party organization server;

matching the user authentication information in the received user number binding request with the obtained user authentication information pre-stored in the third-party organization server;

obtaining the registration number of the user according to the user identification information when the matching succeeds; and

sending the obtained registration number of the user to the third-party organization client.

6. The number saving and sending method according to claim 5, wherein the third-party organization server pre-stores a unique ID corresponding to the user identification information; and

after the receiving a user number binding request sent by a third-party organization client, the method further comprises: obtaining, according to the unique ID, the user authentication information pre-stored in the third-party organization server.

7. The number saving and sending method according to claim 6, wherein before the

receiving a registration number and a corresponding secret token of a user sent by a server of the data authentication platform, the method further comprises: receiving secret tokens respectively generated by the server of the data authentication platform according to one or more registration numbers of one or more users.

8. A number binding method, comprising:

receiving a user number binding request and sending the user number binding request to a third-party organization server, wherein the user number binding request comprises user authentication information and user identification information;

receiving, when the third-party organization server succeeds in matching the user authentication information according to any one of claims 1 to 4, a registration number of a user sent by the third-party organization server; and

receiving a confirmation result of the user for number binding, wherein the number binding is successful.

9. The number binding method according to claim 8, wherein the receiving a registration number of a user sent by the third-party organization server comprises:

receiving a registration number selected by the user and sent by the third-party organization server; or

receiving each registration number of the user sent by the third-party organization server and obtaining a registration number selected by the user.

10. The number binding method according to claim 8, wherein after the receiving a registration number of a user sent by the third-party organization server, the method further comprises:

receiving a confirmation result of the user for stopping number binding, the number binding being unsuccessful.

11. An identity authentication apparatus, comprising: a request receiving module, an information obtaining module, an information matching module, a result receiving module, a number and secret token obtaining module, and a number and secret token sending module, wherein

the request receiving module is configured to receive a user identity authentication request sent by a client of a data authentication platform, wherein the user identity authentication request comprises user authentication information and user identification information, and a server of the data authentication platform pre-stores user authentication information and a registration number and a secret token that correspond to the user identification information;

the information obtaining module is configured to obtain, according to the user

identification information, the user authentication information pre-stored in the server of the data authentication platform;

the information matching module is configured to match the user authentication information in the received user identity authentication request with the obtained user authentication information pre-stored in the server of the data authentication platform;

the result receiving module is configured to receive, when the matching succeeds, a confirmation result of the user for obtaining registration number, wherein the confirmation result is sent by the client of the data authentication platform;

the number and secret token obtaining module is configured to obtain the registration number and the corresponding secret token of the user according to the received confirmation result; and

the number and secret token sending module is configured to send the obtained registration number and corresponding secret token of the user to a third-party organization server.

12. The identity authentication apparatus according to claim 11, wherein the number and secret token obtaining module is configured to obtain each registration number and each corresponding secret token of the user; or send each obtained registration number of the user to the client of the data authentication platform and obtain a registration number selected by the user and a secret token corresponding to the registration number selected by the user.

13. The identity authentication apparatus according to claim 11, wherein the user is a pre-registered user, and the apparatus further comprises: a secret token generation module and a secret token sending module, wherein

the secret token generation module is configured to respectively generate irreversible unique secret tokens by using one or more registration numbers of one or more pre-registered users before the request receiving module receives the user identity authentication request sent by the client of the data authentication platform; and

the secret token sending module is configured to send the generated secret tokens to the third-party organization server in batches.

14. A number saving and sending apparatus, comprising: a number and secret token receiving module, a secret token matching module, a number saving module, a request receiving module, an information obtaining module, an information matching module, a number obtaining module, and a number sending module, wherein

the number and secret token receiving module is configured to receive a registration number and a corresponding secret token of a user sent by a server of a data authentication

platform;

the secret token matching module is configured to match the received secret token corresponding to the registration number of the user with pre-stored secret tokens sent by the server of the data authentication platform in batches, wherein the secret tokens sent in batches are associated with pre-stored user identification information;

the number saving module is configured to save the received registration number of the user when the matching succeeds, wherein the saved registration number of the user is associated with the pre-stored user identification information of the user;

the request receiving module is configured to receive a user number binding request sent by a third-party organization client, wherein the user number binding request comprises user authentication information and user identification information;

the information obtaining module is configured to obtain, according to the user identification information, user authentication information pre-stored in a third-party organization server;

the information matching module is configured to match the user authentication information in the received user number binding request with the obtained user authentication information pre-stored in the third-party organization server;

the number obtaining module is configured to obtain the registration number of the user according to the user identification information when the matching succeeds; and

the number sending module is configured to send the obtained registration number of the user to the third-party organization client.

15. The number saving and sending apparatus according to claim 14, wherein before receiving the registration number and the corresponding secret token of the user sent by the server of the data authentication platform, the number and secret token receiving module is further configured to receive secret tokens respectively generated by the server of the data authentication platform according to one or more registration numbers of one or more users.

16. A number binding apparatus, comprising: a request receiving module, a request sending module, a number receiving module, and a result receiving module, wherein

the request receiving module is configured to receive a user number binding request;

the request sending module is configured to send the user number binding request to a third-party organization server, wherein the user number binding request comprises user authentication information and user identification information;

the number receiving module is configured to receive, when the third-party organization server succeeds in matching the user authentication information according to any one of claims

1 to 4, a registration number of a user sent by the third-party organization server; and
the result receiving module is configured to receive a confirmation result of the user for number binding, wherein the number binding is successful.

17. The number binding apparatus according to claim 16, wherein the number receiving module is configured to receive a registration number selected by the user and sent by the third-party organization server; or receive each registration number of the user sent by the third-party organization server and obtain a registration number selected by the user.

18. The number binding apparatus according to claim 16, wherein after the number receiving module receives the registration number of the user sent by the third-party organization server, the result receiving module is further configured to obtain a confirmation result of the user for stopping number binding, the number binding being unsuccessful.

19. A system for identity authentication, number saving and sending, and number binding, comprising an identity authentication apparatus, a number saving and sending apparatus, and a number binding apparatus.

20. An identity authentication device, comprising a memory and a processor, wherein the memory stores a program, and the program is configured to cause the processor to perform the identity authentication method according to any one of claims 1 to 4.

21. A number saving and sending device, comprising a memory and a processor, wherein the memory stores a program, and the program is configured to cause the processor to perform the number saving and sending method according to any one of claims 5 to 7.

22. A number binding device, comprising a memory and a processor, wherein the memory stores a program, and the program is configured to cause the processor to perform the number binding method according to any one of claims 8 to 10.