

CLAIMS

1. A login method performed by a service apparatus and an identity management apparatus,
the service apparatus being a client side provided by a service party and including a computer
program installed on a terminal device and the identity management apparatus comprising a first
5 server side deployed on a server configured by an identity management party,

wherein the identity management apparatus is configured to manage a registered primary
account and at least one sub-account associated for at least the service apparatus with the registered
primary account, wherein the registered primary account is bound to identity document information
of a corresponding user, an identification of the registered primary account is associated with the
10 identity document information of the corresponding user, and the registered primary account
comprises an identification information set comprising a plurality of pieces of identification
information bound to the registered primary account, the method comprising:

after a login process of a the service apparatus to log in to a second server side of an Internet
service is triggered, acquiring, by an interface module in the service apparatus, verification
15 information of a target primary account, and sending the verification information to an identity
management apparatus, wherein the verification information comprises an identification of the
target primary account and at least one piece of identification information, and the at least one
piece of identification information comprised in the verification information is determined based
on a security level required by the service apparatus for the login process;

20 after receiving the verification information by the identity management apparatus,
performing, by the identity management apparatus, identity verification on the target primary
account by using an the identification information set of a the registered primary account; ~~and~~

after the identity verification is passed, acquiring login information of the at least one sub-
account associated for the service apparatus in advance with the target primary account and sending
25 the login information to the interface module; and

after the interface module receives the login information, determining, by the service apparatus, a target sub-account among the at least one sub-account and logging in to ~~a~~the second server side using the corresponding acquired login information of the target sub-account.

~~2. The method according to claim 1, wherein the verification information comprises: an~~
5 ~~identification of the target primary account and at least one type of identification information.~~

~~32. The method according to claim 21, wherein the identification of the target primary account~~
is associated with an identity document number of a corresponding user.

~~4. The method according to claim 2, wherein the at least one type of identification information~~
~~comprised in the verification information is determined based on a security level of the service~~
10 ~~apparatus.~~

~~53. The method according to claim 21, wherein the service apparatus determining, the service~~
~~apparatus,~~ the target sub-account among the at least one sub-account comprises:

if login information of a plurality of sub-accounts is received, after displaying the plurality of sub-accounts, acquiring the sub-account selected by a user as the target sub-account.

15 ~~64. The method according to claim 1, wherein the identification information set of the~~
~~registered primary account includes one or more types/pieces of identification information~~
~~belowbeing:~~ network identification information, personal identification information, or biometric
information.

~~5. The method according to claim 1, wherein the identification information set of the~~
20 ~~registered primary account comprises a first identification information subset with a low security~~
~~level and a second identification information subset with a high security level, wherein each of the~~
~~first identification information subset and the second identification information subset is composed~~
~~of one or more associated pieces of identification information in the identification information set,~~

~~wherein acquiring, by the interface module in the service apparatus, the verification~~
25 ~~information of the target primary account comprises:~~

when the service apparatus determines that the Internet service requires a low security level, requiring, by the interface module of the service apparatus, input of identification information associated with the target primary account belonging to the first identification information subset, and

5 when the service apparatus determines that the Internet service requires a high security level, requiring, by the interface module of the service apparatus, input of identification information associated with the target primary account belonging to the second identification information subset.

6. The method according to any of the preceding claims, wherein the Internet service is an application or a website.

7. A server providing an identity management apparatus deployed thereon, the identity management apparatus configured to interface with a service apparatus, the service apparatus being a client side provided by a service party and including a computer program installed on a terminal device, the identity management apparatus comprising:

15 an identity information management module configured to: manage a registered primary account and at least one sub-account associated for at least ~~one~~ the service apparatus with the registered primary account, wherein the registered primary account is bound to identity document information of a corresponding user, an identification of the registered primary account is associated with the identity document information of the corresponding user, the registered primary
20 account ~~corresponds to~~ comprises an identification information set comprising a plurality of pieces of identification information bound to the registered primary account, and the at least sub-account is to be used ~~for~~ by the service apparatus for a login process to log in to a server side of an Internet service; and

25 an identity verification module configured to: receive verification information of a target primary account sent by an interface module of the service apparatus, perform identity verification on the target primary account by using the identification information set, ~~and after the identity~~

~~verification is passed, acquire, after the identity verification is passed,~~ login information of the at least one sub-account associated for the service apparatus in advance with the target primary account and send the login information to the interface module,

wherein the verification information of the target primary account sent by the interface module of the service apparatus comprises an identification of the target primary account and at least one piece of identification information, and the at least one piece of identification information comprised in the verification information is determined based on a security level required by the service apparatus for the login process.

~~8. The apparatus according to claim 7, wherein the registered primary account is bound to identity document information of a corresponding user.~~

~~98. The apparatus server according to claim 7, wherein the sub-account corresponds to an identification information subset for identity verification, and the identification information subset is determined based on a the security level of the service apparatus, the identification information set of the registered primary account comprises a first identification information subset with a low security level and a second identification information subset with a high security level, wherein each of the first identification information subset and the second identification information subset is composed of one or more associated pieces of identification information in the identification information set,~~

wherein the at least one piece of identification information comprised in the verification information of the target primary account comprises identification information associated with the target primary account belonging to the first identification information subset when the Internet service requires a low security level or identification information associated with the target primary account belonging to the second identification information subset when the Internet service requires a high security level.

109. The ~~apparatus-server~~ according to claim 7, wherein the identification information set comprises one or more ~~types-pieces~~ of identification information ~~belowbeing~~: network identification information, personal identification information, or biometric information.

110. The ~~apparatus-server~~ according to claim 7, wherein the identity information management module is further configured to: determine content level parameters of the registered primary account based at least on an age of the registered primary account, and send the content level parameters to the interface module.

111. The ~~apparatus-server~~ according to claim 7, wherein the identity management apparatus further comprises a security control module configured to:

acquire user behavior data sent by the service apparatus, and perform risk control based on the user behavior data.

112. The ~~apparatus-server~~ according to claim 7, wherein the identity management apparatus further comprises a security control module configured to:

in a primary account registration stage, perform risk control based on whether submitted identification information matches identification information of other registered primary accounts.

~~14. A service apparatus, comprising:~~

~~an interface module configured to: after a login process of the service apparatus is triggered, acquire verification information of a target primary account and send the verification information to an identity management apparatus; and receive login information of at least one sub-account sent by the identity management apparatus; and~~

~~a login module configured to: after the interface module receives the login information, determine a target sub-account and log in to a server side.~~

~~15. The apparatus according to claim 14, wherein an identification of the target primary account is associated with an identity document number of a corresponding user.~~

16. ~~The apparatus according to claim 15, wherein at least one type of identification information comprised in the verification information is determined based on a security level of the service apparatus.~~

17. ~~The apparatus according to claim 14, wherein the interface module is further configured to receive content level parameters of a primary account corresponding to the target sub-account; and~~

~~the service apparatus further comprises a display module configured to: determine displayed service contents according to the content level parameters and display the service contents.~~

1813. A computer-readable storage medium comprising instructions of an identity management apparatus stored thereon which, when executed by a processor of a server, cause the processor to carry out an identity verification method, wherein the identity management apparatus is deployed on the server and configured to interface with a service apparatus and the service apparatus is a client side provided by a service party and including a computer program installed on a terminal device,

wherein the identity management apparatus is configured to manage a registered primary account and at least one sub-account associated for at least the service apparatus with the registered primary account, wherein the registered primary account is bound to identity document information of a corresponding user, an identification of the registered primary account is associated with the identity document information of the corresponding user, the registered primary account comprises an identification information set comprising a plurality of pieces of identification information bound to the registered primary account and the identity verification method comprising:

after a login process of the service apparatus to log in to a server side of an Internet service is triggered, receiving verification information of a target primary account sent by an interface module of the service apparatus, wherein the verification information comprises an identification of the target primary account and at least one piece of identification information, and the at least

one piece of identification information comprised in the verification information is determined based on a security level required by the service apparatus for the login process;

performing identity verification on the target primary account by using ~~an~~the identification information set corresponding to ~~a~~the registered primary account, ~~wherein the registered primary account is associated with at least one sub-account for at least one service apparatus in advance, and the sub-account is used for the service apparatus to log in to a server side;~~ and

after the identity verification is passed, acquiring login information of the at least one sub-account ~~associated for the service apparatus in advance with the target primary account~~ and sending the login information to the interface module of the service apparatus, wherein the at least sub-account comprises a sub-account to be used by the service apparatus to log in to the server side of the Internet service.

~~1914.~~ A computer-readable storage medium storing instructions of a service apparatus thereon which, when executed by a processor of a terminal device, cause the processor to perform a login method, the service apparatus being provided by a service party and installed on the terminal device, the service apparatus configured to interface with an identity management apparatus, the identity management apparatus comprising a first server side deployed on a server configured by an identity management party,

wherein the identity management apparatus is configured to manage a registered primary account and at least one sub-account associated for at least the service apparatus with the registered primary account, wherein the registered primary account is bound to identity document information of a corresponding user, an identification of the registered primary account is associated with the identity document information of the corresponding user, the registered primary account comprises an identification information set comprising a plurality of pieces of identification information bound to the registered primary account and the login method comprising:

after a login process to log in to a second server side of an Internet service is triggered, acquiring verification information of a target primary account and sending the verification

information to ~~an~~the identity management apparatus for identity verification, wherein the verification information comprises an identification of the target primary account and at least one piece of identification information, and the at least one piece of identification information comprised in the verification information is determined based on a security level required by the
5 service apparatus for the login process;

after the identity verification is passed, receiving login information of the at least one sub-account sent by the identity management apparatus; and

determining a target sub-account from the at least one sub-account and logging in to ~~a~~the second server side using the corresponding acquired login information of the target sub-account.

10 ~~20. A computer device, comprising a memory, a processor, and a computer program stored on the memory and executable on the processor, wherein a following method is implemented when the processor executes the program:~~

~~receiving verification information of a target primary account sent by an interface module of a service apparatus;~~

15 ~~performing identity verification on the target primary account by using an identification information set corresponding to a registered primary account, wherein the registered primary account is associated with at least one sub-account for at least one service apparatus in advance, and the sub-account is used for the service apparatus to log in to a server side; and~~

~~after the identity verification is passed, acquiring login information of the at least one sub-account associated for the service apparatus in advance with the target primary account and sending the login information to the interface module.~~

~~21. A computer device, comprising a memory, a processor, and a computer program stored on the memory and executable on the processor, wherein a following method is implemented when the processor executes the program:~~

25 ~~after a login process is triggered, acquiring verification information of a target primary account and sending the verification information to an identity management apparatus;~~

~~receiving login information of at least one sub account sent by the identity management apparatus; and~~
~~determining a target sub account from the at least one sub account and logging in to a server side.~~