

CLAIMS

1. A communication establishment method, wherein the method comprises:

acquiring, by a first device, a second user identifier by scanning, wherein the second user identifier is an image identifier;

5 sending, by the first device, a query message to a server according to the second user identifier, wherein the query message is used by the server to query at least one communication capability of a user corresponding to the second user identifier, wherein related information of the user corresponding to the second user identifier is unavailable to a user of the first device;

10 receiving, by the first device, a session menu sent by the server according to the query message, wherein the session menu is used to present the at least one communication capability of the user corresponding to the second user identifier;

 sending, by the first device, a communication establishment message to the server according to the session menu, wherein the communication establishment
15 message comprises information about the selected at least one communication capability; and

 communicating, by the first device by means of communication established by the server according to the selected at least one communication capability, with the user corresponding to the second user identifier; or

20 establishing, by the first device according to the selected at least one communication capability, communication with the user corresponding to the second user identifier;

 wherein in a whole process, the user of the first device cannot directly obtain the related information of the user corresponding to the second user identifier₁;

25 ~~2. The method according to claim 1, wherein the method further comprises:~~

 sending, by the first device, a registration message to the server, wherein the registration message comprises user identity information and at least one communication number of a user; and

30 receiving, by the first device, a first user identifier generated by the server according to the registration message₂;

~~3. The method according to claim 2, wherein:~~

the registration message further comprises validity period information; or
after the receiving, by the first device, a first user identifier generated by the
server according to the registration message, the method further comprises:

sending, by the first device, validity period information to the server; wherein

5 the validity period information is used by the server to set a validity period for
the first user identifier.

42. The method according to claim 2 or 31, wherein the session menu is used to
present at least one communication capability possessed by both the user
corresponding to the first user identifier and the user corresponding to the second user
10 identifier.

53. A communication establishment method, wherein the method comprises:

querying, by a server according to a received query message sent by a first
device according to a second user identifier, validity period information of the second
user identifier and at least one communication capability of a user corresponding to
15 the second user identifier, wherein the validity period information is used to determine
whether the second user identifier falls within a validity period, wherein the second
user identifier is acquired by the first device by scanning, and the second user
identifier is an image identifier, wherein related information of the user corresponding
to the second user identifier is unavailable to a user of the first device;

20 if the second user identifier falls within the validity period, generating, by the
server, a session menu according to the queried at least one communication capability
of the user corresponding to the second user identifier, wherein the session menu is
used to present the at least one communication capability of the user corresponding to
the second user identifier;

25 sending, by the server, the session menu to the first device; and

establishing, by the server according to a received communication establishment
message sent by the first device according to the session menu, communication
between the first device and the user corresponding to the second user identifier,
wherein the communication establishment message comprises the at least one
30 communication capability selected by the first device;

wherein in a whole process, the user of the first device cannot directly obtain the
related information of the user corresponding to the second user identifier;

~~6. The method according to claim 5, wherein the method further comprises:~~

~~if the second user identifier falls beyond the validity period, sending, by the~~

server, a reminder message to the first device, wherein the reminder message is used to remind the first device that the second user identifier falls beyond the validity period; or

if the second user identifier falls beyond the validity period, sending, by the server, a request message to the user corresponding to the second user identifier, wherein the request message is used to request the user corresponding to the second user identifier to allow the server to establish communication between the first device and the user corresponding to the second user identifier.

7. The method according to claim 5 or 6, wherein the method further comprises:

generating, by the server, a first user identifier according to a registration message sent by the first device, wherein the registration message comprises user identity information and at least one communication number of a user; and

sending, by the server, the first user identifier to the first device;

8. The method according to claim 7, wherein

the registration message further comprises validity period information, and the server sets a validity period for the first user identifier according to the validity period information; or

after the sending, by the server, the first user identifier to the first device, the method further comprises:

receiving, by the server, validity period information sent by the first device, and setting, by the server, a validity period for the first user identifier according to the validity period information.

4. The method according to claim 3, wherein the method further comprises:

if the second user identifier falls beyond the validity period, sending, by the server, a reminder message to the first device, wherein the reminder message is used to remind the first device that the second user identifier falls beyond the validity period; or

if the second user identifier falls beyond the validity period, sending, by the server, a request message to the user corresponding to the second user identifier, wherein the request message is used to request the user corresponding to the second user identifier to allow the server to establish communication between the first device and the user corresponding to the second user identifier.

95. The method according to ~~any one of claims 5 to 81~~ or 2, wherein the validity period information comprises one-time validity, time-span-based validity, or

long-term validity.

106. The method according to any one of claims ~~7-3~~ to 95, wherein the generating, by the server, a session menu according to the queried at least one communication capability of the user corresponding to the second user identifier specifically comprises:

generating, by the server, the session menu according to the queried at least one communication capability possessed by both the user corresponding to the second user identifier and the user corresponding to the first user identifier.

117. A device, wherein the device comprises a query message sending unit, a session menu receiving unit, a communication establishment message sending unit, and a communication establishment unit; wherein

the query message sending unit is configured to acquire a second user identifier by scanning and send a query message to a server according to the second user identifier, wherein the second user identifier is an image identifier, wherein the query message is used by the server to query at least one communication capability of a user corresponding to the second user identifier, wherein related information of the user corresponding to the second user identifier is unavailable to a user of the first device;

the session menu receiving unit is configured to receive a session menu sent by the server according to the query message, wherein the session menu is used to present the at least one communication capability of the user corresponding to the second user identifier;

the communication establishment message sending unit is configured to send a communication establishment message to the server according to the session menu, wherein the communication establishment message comprises information about the selected at least one communication capability; and

the communication establishment unit is configured to establish, by means of communication established by the server according to the communication establishment message, communication with the user corresponding to the second user identifier, or configured to establish, according to the selected at least one communication capability, communication with the user corresponding to the second user identifier;

wherein in a whole process, the user of the first device cannot directly obtain the related information of the user corresponding to the second user identifier;

~~12. The device according to claim 11,~~ wherein the device further comprises:

a registration message sending unit, configured to send a registration message to the server, wherein the registration message comprises user identity information and at least one communication number of a user; and

5 | a user identifier receiving unit, configured to receive a first user identifier generated by the server according to the registration message;

~~13. The device according to claim 12, wherein:~~

the registration message sending unit is further configured to send a validity period information; or

10 | the device further comprises a validity period sending unit, configured to: after the user identifier receiving unit receives the first user identifier, send a validity period information to the server; wherein

the validity period information is used by the server to set a validity period for the first user identifier;

15 | the query message sending unit is further configured to send a query message to the server according to a second user identifier to query validity period information of the second user identifier.

20 | ~~148. The device according to claim 12 or 137, wherein the session menu is used to present at least one communication capability possessed by both the user corresponding to the first user identifier and the user corresponding to the second user identifier.~~

159. A server, wherein the server comprises a query unit, a session menu generation unit, a session menu sending unit, and a communication establishment unit; wherein

25 | the query unit is configured to query, according to a received query message sent by a first device according to a second user identifier, validity period information of the second user identifier and at least one communication capability of a user corresponding to the second user identifier, wherein the validity period information is used to determine whether the second user identifier falls within a validity period, wherein the second user identifier is acquired by the first device by scanning, and the
30 | second user identifier is an image identifier, wherein related information of the user corresponding to the second user identifier is unavailable to a user of the first device;

the session menu generation unit is configured to: if the second user identifier falls within the validity period, generate a session menu according to the queried at least one communication capability of the user corresponding to the second user

identifier, wherein the session menu is used to present the at least one communication capability of the user corresponding to the second user identifier;

the session menu sending unit is configured to send the session menu to the first device; and

5 the communication establishment unit is configured to establish, according to a received communication establishment message sent by the first device according to the session menu, communication between the first device and the user corresponding to the second user identifier, wherein the communication establishment message comprises the at least one communication capability selected by the first device;

10 wherein in a whole process, the user of the first device cannot directly obtain the related information of the user corresponding to the second user identifier;

wherein the server further comprises a user identifier generation unit and a user identifier sending unit; wherein

15 the user identifier generation unit is configured to generate a first user identifier according to a registration message sent by the first device, wherein the registration message comprises user identity information and at least one communication number of a user; and the user identifier sending unit is configured to send the first user identifier to the first device;

20 wherein the server further comprises validity period information generation unit, configured to set a validity period for the first user identifier according to validity period information sent by the first device.

~~16~~10. The server according to claim ~~15~~9, wherein the server further comprises:

25 a reminder message sending unit, configured to: if the second user identifier falls beyond the validity period, send a reminder message to the first device, wherein the reminder message is used to remind the first device that the second user identifier falls beyond the validity period; and/or

30 a request message sending unit, configured to: if the second user identifier falls beyond the validity period, send a request message to the user corresponding to the second user identifier, wherein the request message is used to request the user corresponding to the second user identifier to allow the server to establish communication between the first device and the user corresponding to the second user identifier.

~~17~~11. The server according to claim ~~15-9~~ or ~~16~~, ~~wherein the server further comprises a user identifier generation unit and a user identifier sending unit; wherein~~

~~the user identifier generation unit is configured to generate a first user identifier according to a registration message sent by the first device, wherein the registration message comprises user identity information and at least one communication number of a user; and~~

5 ~~the user identifier sending unit is configured to send the first user identifier to the first device.~~

~~18. The server according to claim 17, wherein the server further comprises validity period information generation unit, configured to set a validity period for the first user identifier according to validity period information sent by the first device.~~

10 ~~19. The server according to claim 17 or 18~~10, wherein the session menu generation unit is specifically configured to generate the session menu according to the queried at least one communication capability possessed by both the user corresponding to the second user identifier and the user corresponding to the first user identifier.

15 ~~20~~12. A communication establishment system, wherein the system comprises the device according to ~~any one of claims 11 to 14~~7 or 8 and the server according to any one of claims ~~15-9 to 19~~11.