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(54) Title: DATA INTERACTION PROCESSING METHOD, DEVICE AND SYSTEM

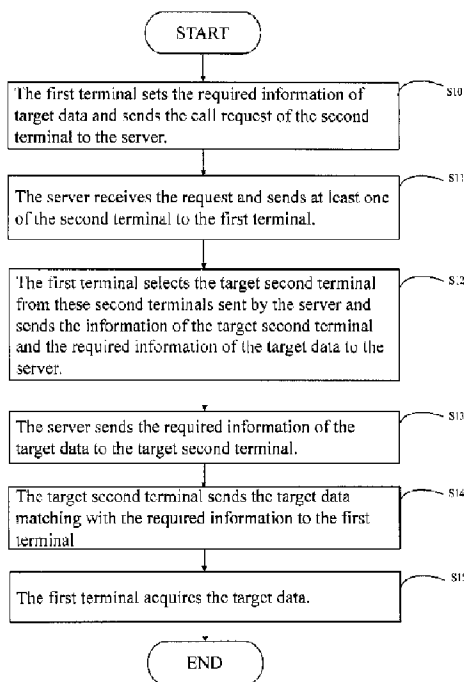


Figure 1

(57) **Abrégé/Abstract:**

A data interaction processing method, device and system. The method comprises: a first terminal sets target data requirement information, and sends a request calling for second terminal information to a server (S10); the server receives the request, and sends information of at least one second terminal to the first terminal (S11); the first terminal selects a target second terminal from within the received second terminal information, and sends target second terminal information and the target data requirement information to the server (S12); the server sends the target data requirement information to the target second terminal (S13); the target second terminal sends target data matching the requirement information to the first terminal (S14); the first terminal obtains the target data (S15). The present invention enables the first terminal to select according to requirements a second terminal to perform target data interaction, thereby increasing the matching speed.

Abstract

A data interaction processing method, device and system. The method comprises: a first terminal sets target data requirement information, and sends a request calling for second terminal information to a server (S10); the server receives the request, and sends information of at least one second terminal to the first terminal (S11); the first terminal selects a target second terminal from within the received second terminal information, and sends target second terminal information and the target data requirement information to the server (S12); the server sends the target data requirement information to the target second terminal (S13); the target second terminal sends target data matching the requirement information to the first terminal (S14); the first terminal obtains the target data (S15). The present invention enables the first terminal to select according to requirements a second terminal to perform target data interaction, thereby increasing the matching speed.

Data Interaction Processing Method, Device and System

[1] Technical Field

[2] The present invention relates to the data interaction field, and in particular, to a method, device and system of data exchange processing.

[3] Background Technology

[4] With the development of Internet technology, especially mobile Internet technology, users can access to the Internet through mobile devices using 2G,3G,4G or WIFI to conduct interaction and social activities. Users can conveniently and effectively perform online activities, this is an incomparable experience with offline. But there is no effective solution about using the Internet faster to find out users' required information yet.

[5] As an example of a data exchange processing in user's living scene of common day, when users purchase products online, they usually search keywords on the platform provided by the Internet, and screen what they would like to purchase from a large amount of search results. In this way, when the information obtained through the keyword matches the information actually required by the user is not high, the user cannot obtain the required information quickly and accurately. So that purchasing product is inefficient.

[6] Summary of the Invention

[7] An object of the present invention is to provide a data interaction processing method, device and system.

[8] To solve the problem above, the first technical solution adopted by the present invention is to provide a data interaction process method, which includes that the first terminal sets the required information of target data and sends the call request of the second terminal to the server; the server receives the

request and sends at least one of the second terminal to the first terminal; the first terminal selects the target second terminal from these second terminals sent by the server and sends the information of the target second terminal and the required information of the target data to the server; the server sends the required information of the target data to the target second terminal; the target second terminal sends the target data matching with the required information to the first terminal; the first terminal acquires the target data.

- [9] To solve the problem above, the second technical solution adopted by the present invention is to provide a data interaction process method, the executive body of this example is the server, which includes that the server receives the call request of the second terminal sent by the first terminal; the server sends at least one of the second terminal to the first terminal, it enables the first terminal to send information of the target second terminal from these second terminals and the required information of the target data; the server sends the required information of the target data to the target second terminal, it enables the target second terminal to send the target data matching with the required information to the first terminal, it also enables the first terminal to acquire the target data.
- [10] To solve the problem above, the third technical solution adopted by the present invention is to provide a data interaction process method, the executive body of this example is the first terminal, which includes that the first terminal sets the required information of target data and sends the call request of the second terminal to the server; the first terminal receives at least one of the second terminal and selects the target second terminal from these second terminals sent by the server, and sends the information of the target second terminal and the required information of the target data to the server; it enables the server to send the required information of the target data to the target second terminal; the first terminal acquires the target data matching with the required information sent by the second terminal.
- [11] To solve the problem above, the fourth technical solution adopted by the present invention is to provide a data interaction process system, which includes the first terminal, the server and at least one of the second terminal. The first terminal is used to set the required information of target data and send the call request of the second terminal to the server; the server is used to receive the request and send at least one of the second terminal to the first terminal; the first terminal is also used to select the target second terminal from these second terminals sent by the server, and send the information of the target second terminal and the required information of the target data to the server;

the server is also used to send the required information of the target data to the target second terminal; the target second terminal is also used to send the target data matching with the required information to the first terminal; the first terminal is also used to acquire the target data.

- [12] To solve the problem above, the fifth technical solution adopted by the present invention is to provide a data interaction process device, which includes a receiving module and a sending module. The receiving module is used to receive the call request of the second terminal sent by the first terminal; the sending module is used to send at least one of the second terminal to the first terminal; it enables the first terminal to select the target second terminal from these second terminals sent by the server; the sending module is also used to send the required information of the target data to the target second terminal, it enables the target second terminal to send the target data matching with the required information to the first terminal and it also enables the first terminal to acquire the target data.
- [13] To solve the problem above, the sixth technical solution adopted by the present invention is to provide a data interaction process device, which includes a sending module, a receiving module and an executing module. The sending module is used to set the required information of target data and send the call request of the second terminal to the server; the receiving module is used to receive at least one of the second terminal sent by the server, and select the target second terminal from these second terminals; the sending module is also used to send the information of the target second terminal and the required information of the target data to the server; it enables the server to send the required information of the target data to the target second terminal; the executing module is used to acquire the target data matching with the required information sent by the second terminal.
- [14] In the solution above, the first terminal selects the target second terminal stored wherein the server, and sends the related information of the target data to the server, the server sends the required information of the target data selected by the first terminal to the selected second terminal, it enables the second terminal to send the target data matching with the required information to the first terminal when confirming to accept the required information, then the first completes the data interaction according to the target data. Therefore, the first terminal can select the target second terminal as required in order to improve the efficiency of the match level.

[15] Brief Description

- [16] Figure 1 is a schematic flow chart of a data interaction processing method applied by the first example of the present invention;
- [17] Figure 2 is a schematic flow chart of a data interaction processing method applied by the second example of the present invention;
- [18] Figure 3 is a schematic flow chart of a data interaction processing method applied by the third example of the present invention;
- [19] Figure 4 is a schematic structural diagram of a data interaction processing system applied by an example of the present invention;
- [20] Figure 5 is a schematic structural diagram of a data interaction processing device applied by the first example of the present invention;
- [21] Figure 6 is a schematic structural diagram of a data interaction processing device applied by second example of the present invention.
- [22] Description of the Preferred Examples
- [23] The specific examples of the present invention will be described in detail with reference to the accompanying drawings.
- [24] Please refer to Figure 1, Figure 1 is a schematic flow chart of a data interaction processing method applied by the first example of the present invention; The data interaction processing method in this example includes the following steps:
- [25] Step S10: the first terminal sets the required information of target data and sends the call request of the second terminal to the server.
- [26] Step S11: the server receives the request and sends at least one of the second terminal to the first terminal.
- [27] Step S12: the first terminal selects the target second terminal from these second terminals sent by the server and sends the information of the target second terminal and the required information of the target data to the server.
- [28] Step S13: the server sends the required information of the target data to the target second terminal.
- [29] Step S14: the target second terminal sends the target data matching with the required information to the first terminal.
- [30] Step S15: the first terminal acquires the target data.

- [31] Thereinto, the target data is the Object Credit Certificate, which is a kind of web-based electronic certificate integrated the target commodity/service information from the target commodity/service provider and the essential functions of electronic commerce. The information of the commodity/service includes the attributes' information such as the product's name and price and the information of the settlement accounts of the provider.
- [32] Further, acquisition method information of an Object Credit Certificate is a link address of an Object Credit Certificate, an Object Credit Certificate is used to provide the target commodity/service information and the essential functions of electronic commerce.
- [33] An example of data interaction method applied by the present invention is showed as below.
- [34] For example, the first terminal is the client A, the server is the data management server, the second terminals are the client B. Thereinto, every client B has the stored the administrator's password wherein one or multiple terminal devices, the password is used to be executed the administrator's permission wherein the corresponding terminal device. The client A, the client B and terminal devices may be a personal computer, a tablet, a smartphone etc. which can access to the Internet and exchange data with the data management server.
- [35] When the client A sends the call requests of the multiple clients B to the data management server, it enables the data management server to send the stored information of the multiple clients B to the client A for selecting. The data management server has acquired and stored the target data of every client B in advance, such as the credit rating, operation log etc. The client A selects the client B1 as the recommended object and sends the required information of the administrator's password of the terminal device C and selected information of the client B1 to the data management server. Further, the data management server sends the required information to the client B1.
- [36] When receiving the required information, the client B1 identifies itself whether stored the administrator's password of the terminal device. If yes, send the corresponding target data to the client A.
- [37] When receiving the target data, the client A identifies whether the target data meets its need. If yes, accept the target data and execute the function of electronic commerce to complete the data interaction of the administrator's password of the terminal device C. Thereinto, for safety of data information, the target data may be the data pack encrypted by the administrator's password of the terminal device C and the encryption keys for deciphering. Specifically, when accepted by the client A, the data pack can be deciphered and unzipped using with the encryption keys and another

encryption key encrypted by the administrator's password of the terminal device C, then the administrator's password of the terminal device C can be obtained.

- [38] In the solution above, the first terminal selects the target second terminal stored wherein the server, and sends the related information of the target data to the server, the server sends the required information of the target data selected by the first terminal to the selected second terminal, it enables the second terminal to send the target data matching with the required information to the first terminal when confirming to accept the required information, then the first completes the data interaction according to the target data. Therefore, the first terminal can select the target second terminal as required in order to improve the efficiency of the match level. In addition, the safety of data transmission is improved at the same time as the efficiency of the data interaction.
- [39] Further, the target data may be the product information, digital, audio data, video data, program data or fund data in the financial field etc. If the target data is the product information, the second terminal should be the buyer, the server should be the server of the electronic commerce platform, the second terminal should be the seller.
- [40] An example of data interaction method applied by the present invention is described as below. Thereinto, the second terminal is the buyer, the second terminal is the seller, the server is the server of the electronic commerce platform.
- [41] The buyer sets the required information of the commodity/service and sends the call request of the seller's information to the server. Specifically, the required information of the target data comprises the name's information of the commodity/service at least. To improve the accuracy of matching data, the promotion information of the target data also includes at least one of the information of specification, price and description.
- [42] The server receives the request and sends at least one of the seller's information to the buyer; thereinto, the server has acquired and stored the target data of every seller in advance for calling and selecting by the buyer.
- [43] The buyer receives the seller's information to select the target seller and sends the information of the target seller and the required information of the commodity/service to the server; thereinto, the buyer selects the target seller from the sellers' information sent by the server, for example, the buyer selects the target seller qualified by the credit rating.
- [44] The server sends the required information of the commodity/service to the target seller.
- [45] The target seller receives the required information of the commodity/service and sends the Object

Credit Certificate matching with the required information to the buyer; further, the seller also can send the related information (such as contact information, location information, purchasing record, credit rating etc.) to the buyer.

- [46] When receiving the Object Credit Certificate, the buyer can check out the related information of the commodity/service through the link address to make sure whether the commodity/service is required. When confirming to purchase, accept this Object Credit Certificate and execute the function of electronic commerce to acquire this Object Credit Certificate, at the same time, complete the transaction of the commodity/service. When confirming to refuse, refuse to accept this Object Credit Certificate.
- [47] In the solution above, the buyer selects the target seller stored wherein the server, and sends the related information of the commodity/service to the server, the server sends the required information of the commodity/service selected by the buyer to the selected seller, it enables the seller to send the Object Credit Certificate matching with the required information to the buyer when confirming to accept the required information, then the buyer completes the data interaction according to the Object Credit Certificate. Therefore, the buyer selects the qualified seller of the commodity/service, so that the match speed is improved, the efficiency of the purchasing process should be improved as well.
- [48] Please refer to Figure 2, Figure 2 is a schematic flow chart of a data interaction processing method applied by the second example of the present invention. The executive body of this example is the server, the data interaction processing method in this example includes the following steps:
- [49] Step S20: the server receives the call request of the second terminal sent by the first terminal.
- [50] Step S21: the server sends at least one of the second terminal to the first terminal, it enables the first terminal to send information of the target second terminal from these second terminals and the required information of the target data.
- [51] Step S22: the server sends the required information of the target data to the target second terminal, it enables the target second terminal to send the target data matching with the required information to the first terminal, it also enables the first terminal to acquire the target data.
- [52] Thereinto, the target data is the Object Credit Certificate, which is a kind of web-based electronic certificate integrated the target commodity/service information from the target commodity/service provider and the essential functions of electronic commerce. The information of the commodity/service includes the attributes' information such as the product's name and price and

the information of the settlement accounts of the provider.

- [53] Further, acquisition method information of an Object Credit Certificate is a link address of an Object Credit Certificate, an Object Credit Certificate is used to provide the target commodity/service information and the essential functions of electronic commerce
- [54] Please refer to Figure 3, Figure 3 is a schematic flow chart of a data interaction processing method applied by the third example of the present invention. The executive body of this example is the first terminal, the data interaction processing method in this example includes the following steps:
- [55] Step S30: the first terminal sets the required information of target data and sends the call request of the second terminal to the server.
- [56] Step S31: the first terminal receives at least one of the second terminal and selects the target second terminal from these second terminals sent by the server and sends the information of the target second terminal and the required information of the target data to the server; it enables the server to send the required information of the target data to the target second terminal.
- [57] Step S32: the first terminal acquires the target data matching with the required information sent by the second terminal.
- [58] Please refer to Figure 4, Figure 4 is a schematic structural diagram of a data interaction processing system applied by an example of the present invention; the data interaction processing system 40 includes the first terminal 41, the server 42 and the second terminal 43. In other examples, the system 40 may comprise multiple second terminals 43. Thereinto, the second terminal 43 and the first terminal 41 may be the clients for data interaction, such as cellphones, tablet computers etc.
- [59] The first terminal 41 is used to set the required information of target data and send the call request of the second terminal to the server.
- [60] The server 42 is used to receive the request and send at least one of the second terminal 43 to the first terminal 41.
- [61] The first terminal 41 is also used to select the target second terminal 43 from these second terminals 43 sent by the server 42 and send the information of the target second terminal 43 and the required information of the target data to the server 42.
- [62] The server 42 is also used to send the required information of the target data to the target second terminal 43.
- [63] The second terminal 43 is also used to receive the required information of the target data and send the target data matching with the required information to the first terminal 41.

- [64] The first terminal 41 is also used to receive the target data and execute the function of electronic commerce to complete the data interaction.
- [65] Thereinto, the target data is the Object Credit Certificate, which is a kind of web-based electronic certificate integrated the target commodity/service information from the target commodity/service provider and the essential functions of electronic commerce. The information of the commodity/service includes the attributes' information such as the product's name and price and the information of the settlement accounts of the provider.
- [66] Further, acquisition method information of an Object Credit Certificate is a link address of an Object Credit Certificate, an Object Credit Certificate is used to provide the target commodity/service information and the essential functions of electronic commerce.
- [67] Please refer to Figure 5, Figure 5 is a schematic structural diagram of a data interaction processing device applied by an example of the present invention; The data interaction processing device 50 in this example includes a receiving module 51 and a sending module 52. In this example, the device 50 is operated wherein the server.
- [68] The receiving module 51 is used to receive the call request of the second terminal sent by the first terminal.
- [69] The sending module 52 is used to send at least one of the second terminal to the first terminal; it enables the first terminal to select the target second terminal from these second terminals sent by the device 50; the sending module is also used to send the required information of the target data to the target second terminal, it enables the target second terminal to send the target data matching with the required information to the first terminal and it also enables the first terminal to complete the data interaction.
- [70] Please refer to Figure 6, Figure 6 is a schematic structural diagram of a data interaction processing device applied by an example of the present invention; The data interaction processing device 60 in this example includes a sending module 61, a receiving module 62 and an executing module 63.
- [71] The sending module 61 is used to set the required information of target data and send the call request of the second terminal to the server.
- [72] The receiving module 62 is used to receive at least one of the second terminal sent by the server and select the target second terminal from these second terminals.
- [73] The sending module 61 is also used to send the information of the target second terminal and the required information of the target data to the server; it enables the server to send the required

information of the target data to the target second terminal.

- [74] The executing module 63 is used to acquire the target data matching with the required information sent by the second terminal.
- [75] The object of the present invention provides a data interaction processing method, device and system, which can improve efficiency of data interaction. The first terminal selects the target second terminal stored wherein the server, and sends the related information of the target data to the server, the server sends the required information of the target data selected by the first terminal to the selected second terminal, it enables the second terminal to send the target data matching with the required information to the first terminal when confirming to accept the required information, then the first completes the data interaction according to the target data. Therefore, the first terminal can select the target second terminal as required in order to improve the efficiency of the match level. In addition, the safety of data transmission is improved at the same time as the efficiency of the data interaction.
- [76] The foregoing descriptions are merely preferred examples of the present invention but not limited to the present invention. Any modification, equivalent replacement, and improvement made within the spirit and principle of the present invention shall be included in the protection of the present invention.

The Claims

- [CLAIM 1] A method of data interaction processing, characterized in the method, comprises:
the first terminal sets the required information of target data and sends the call request of the second terminal to the server; and
the server receives the request and sends at least one of the second terminal to the first terminal; and
the first terminal selects the target second terminal from these second terminals sent by the server and sends the information of the target second terminal and the required information of the target data to the server; and
the server sends the required information of the target data to the target second terminal;
and
the target second terminal sends the target data matching with the required information to the first terminal; and
the first terminal acquires the target data.
- [CLAIM 2] The method according to claim 1, characterized in the method, wherein this target data is an Object Credit Certificate which is a kind of web-based electronic certificate integrated the target commodity/service information from the target commodity/service provider and the essential functions of electronic commerce, the information of the commodity/service includes the attributes' information such as the product's name and price and the information of the settlement accounts of the provider at least.
- [CLAIM 3] The method according to claim 2, characterized in the method, wherein the acquisition method information of an Object Credit Certificate is a link address of an Object Credit Certificate, an Object Credit Certificate is used to provide the target commodity/service information and the essential functions of electronic commerce.
- [CLAIM 4] A method of data interaction processing, characterized in the method, executed in the server, comprises:
the server receives the call request of the second terminal sent by the first terminal; and

the server sends at least one of the second terminal to the first terminal, it enables the first terminal to send information of the target second terminal from these second terminals and the required information of the target data; and

the server sends the required information of the target data to the target second terminal, it enables the target second terminal to send the target data matching with the required information to the first terminal, it also enables the first terminal to acquire the target data.

[CLAIM 5] The method according to claim 4, characterized in the method, wherein this target data is an Object Credit Certificate which is a kind of web-based electronic certificate integrated the target commodity/service information from the target commodity/service provider and the essential functions of electronic commerce, the information of the commodity/service includes the attributes' information such as the product's name and price and the information of the settlement accounts of the provider at least.

[CLAIM 6] The method according to claim 5, characterized in the method, wherein the acquisition method information of an Object Credit Certificate is a link address of an Object Credit Certificate, an Object Credit Certificate is used to provide the target commodity/service information and the essential functions of electronic commerce.

[CLAIM 7] A method of data interaction processing, characterized in the method, executed in the first terminal, comprises:
the first terminal sets the required information of target data and sends the call request of the second terminal to the server; and
the first terminal receives at least one of the second terminal and selects the target second terminal from these second terminals sent by the server and sends the information of the target second terminal and the required information of the target data to the server; it enables the server to send the required information of the target data to the target second terminal; and
the first terminal acquires the target data matching with the required information sent by the second terminal.

[CLAIM 8] A system of data interaction processing, characterized in the system, comprises the first terminal, the server and the second terminal,
the first terminal is used to set the required information of target data and send the call request of the second terminal to the server; and
the server is used to receive the request and send at least one of the second terminal to the first terminal; and
the first terminal is also used to select the target second terminal from these second terminals sent by the server and send the information of the target second terminal and the required information of the target data to the server; and
the server is also used to send the required information of the target data to the target second terminal; and
the target second terminal is also used to send the target data matching with the required information to the first terminal; and
the first terminal is also used to acquire the target data.

[CLAIM 9] A device of data interaction processing, characterized in the device, comprises a receiving module and a sending module,
the receiving module is used to receive the call request of the second terminal sent by the first terminal; and
the sending module is used to send at least one of the second terminal to the first terminal; it enables the first terminal to select the target second terminal from these second terminals sent by the server; and
the sending module is also used to send the required information of the target data to the target second terminal, it enables the target second terminal to send the target data matching with the required information to the first terminal and it also enables the first terminal to acquire the target data.

[CLAIM 10] A device of data interaction processing, characterized in the device, comprises a sending module, a receiving module and an executing module,
the sending module is used to set the required information of target data and send the call request of the second terminal to the server; and

the receiving module is used to receive at least one of the second terminal sent by the server and select the target second terminal from these second terminals; and
the sending module is also used to send the information of the target second terminal and the required information of the target data to the server, it enables the server to send the required information of the target data to the target second terminal; and
the executing module is used to acquire the target data matching with the required information sent by the second terminal.

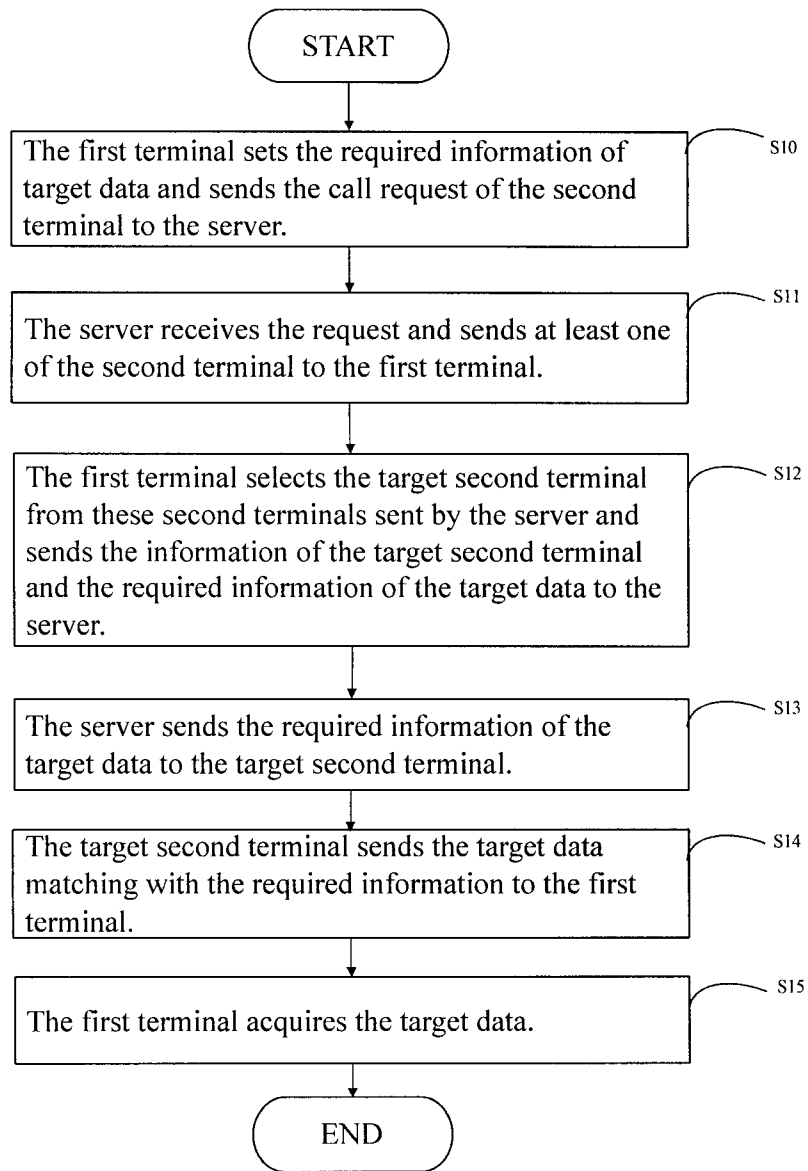


Figure 1

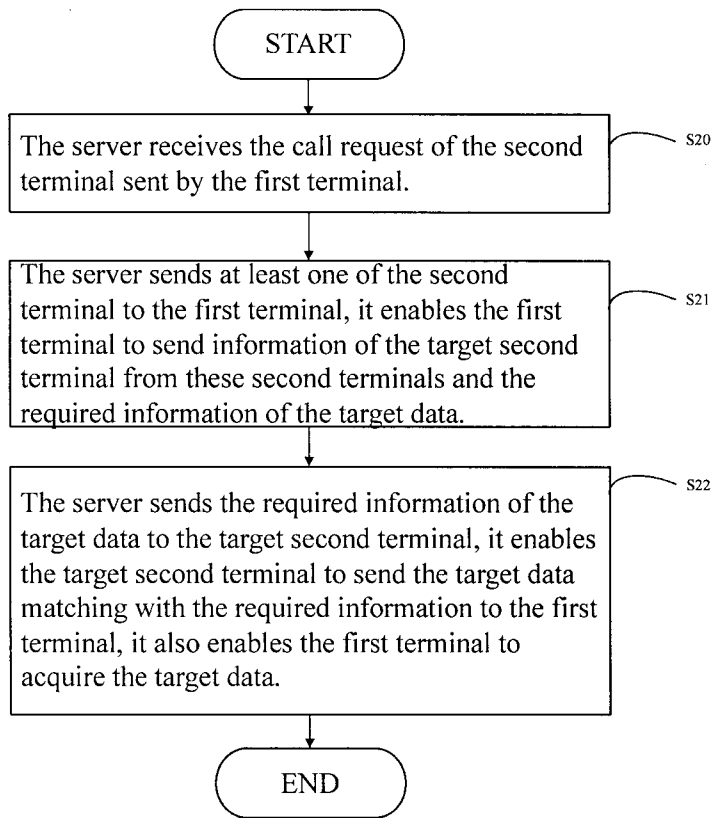


Figure 2

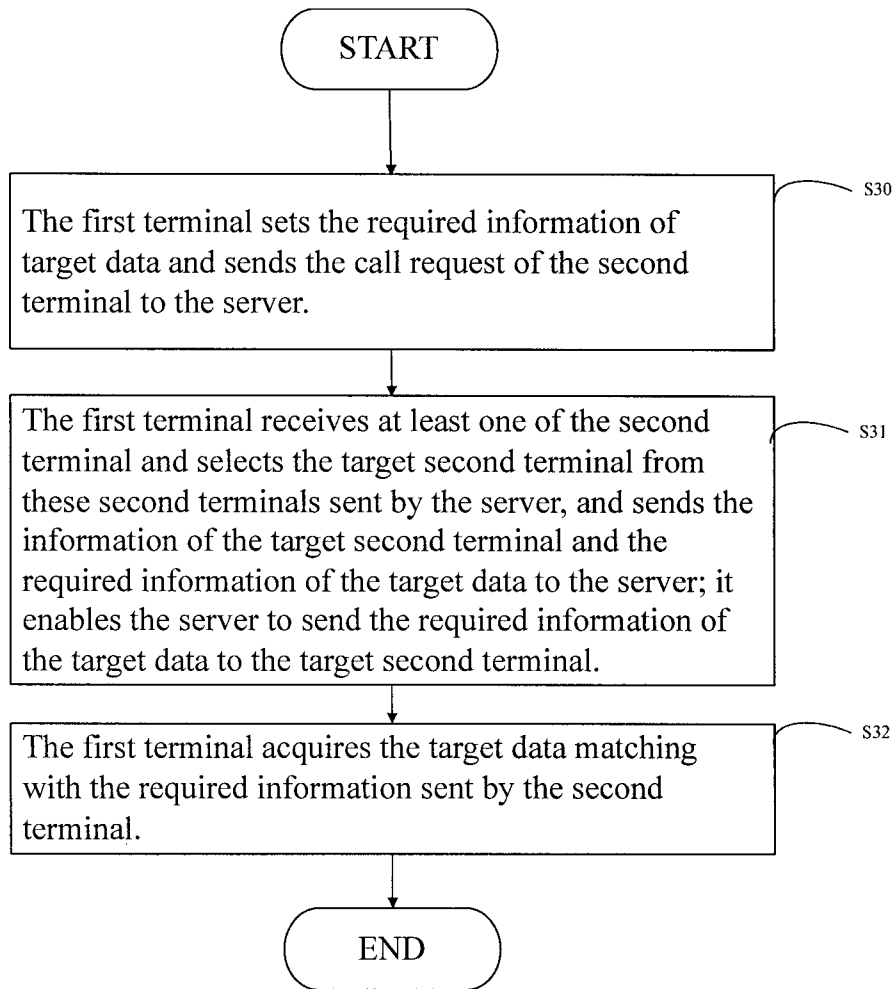


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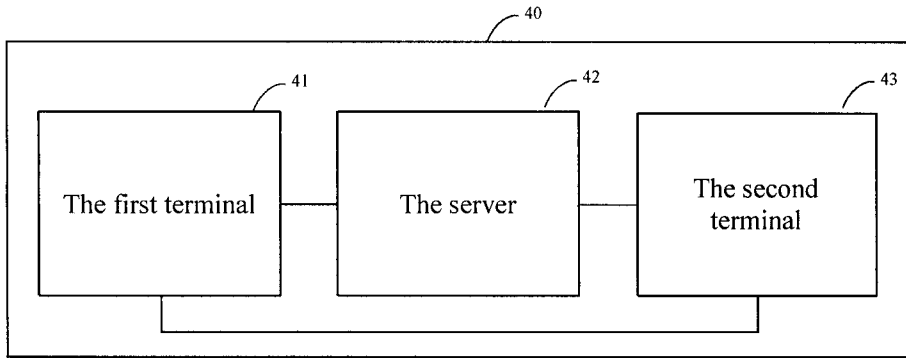


Figure 4

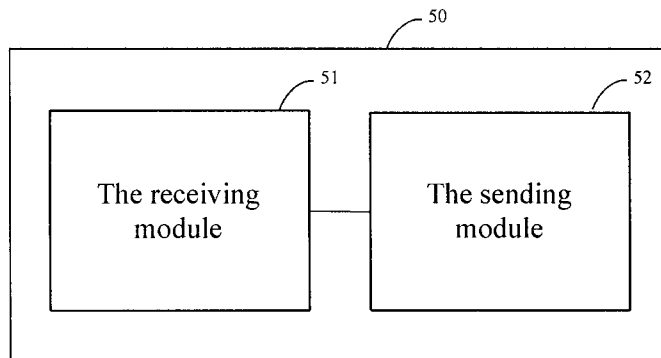


Figure 5

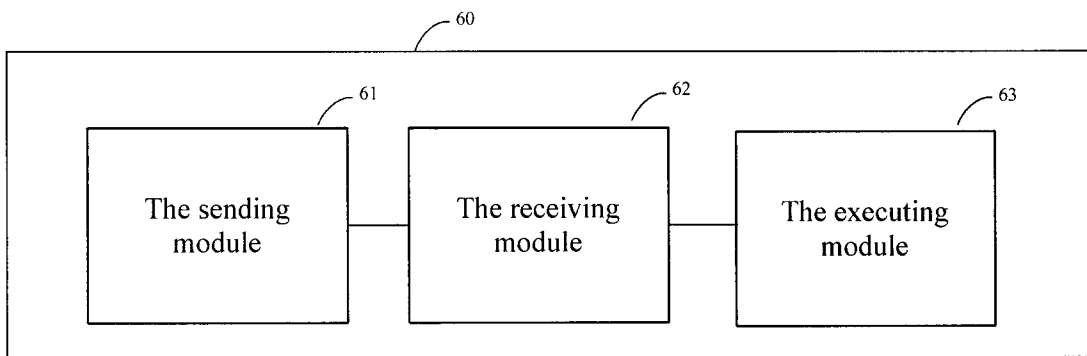


Figure 6

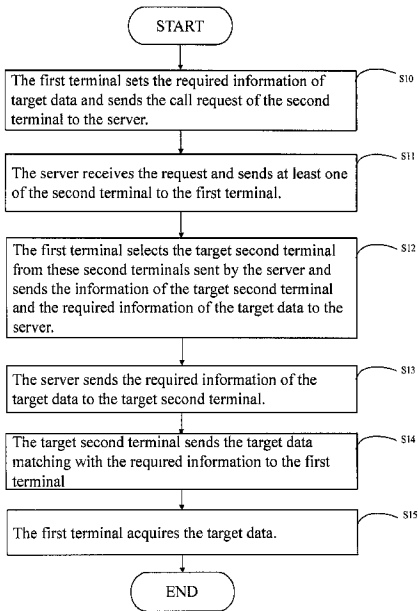


Figure 1