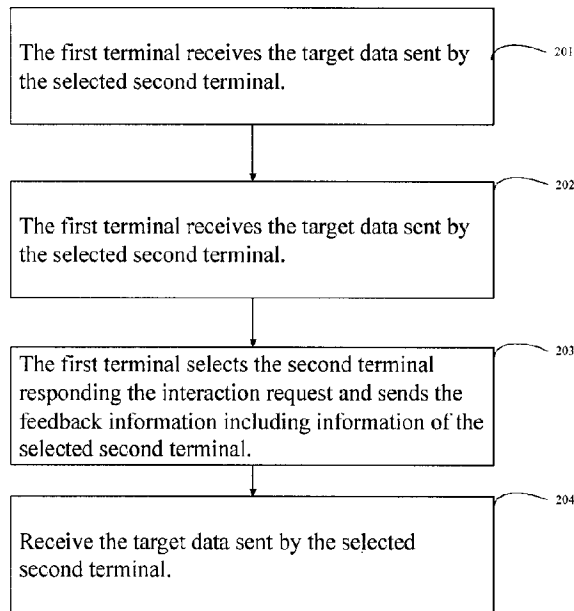




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(54) Titre : PROCÉDE, DISPOSITIF ET SYSTÈME DE TRAITEMENT D'INTERACTION DE DONNÉES
 (54) Title: DATA INTERACTION PROCESSING METHOD, DEVICE AND SYSTEM



(57) **Abrégé/Abstract:**

Disclosed are a data interaction processing method, device and system. The data interaction processing method comprises: a first terminal sends to a server an interaction request including target data requirement information and a corresponding preset threshold of second terminals required to respond to the requirement information; the first terminal receives information sent by the server of a plurality of second terminals responding to the interaction request; the first terminal selects a second terminal responding to the interaction request, and sends feedback information including the information of the selected second terminal to the server; the first terminal receives target data sent by the selected second terminal, thereby increasing the degree of information matching and the interaction efficiency.

Abstract

Disclosed are a data interaction processing method, device and system. The data interaction processing method comprises: a first terminal sends to a server an interaction request including target data requirement information and a corresponding preset threshold of second terminals required to respond to the requirement information; the first terminal receives information sent by the server of a plurality of second terminals responding to the interaction request; the first terminal selects a second terminal responding to the interaction request, and sends feedback information including the information of the selected second terminal to the server; the first terminal receives target data sent by the selected second terminal, thereby increasing the degree of information matching and the interaction efficiency.

Data Interaction Processing Method, Device and System

Technical Field

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

Background Technology

[2] 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.

[3] 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.

Summary of the Invention

[4] An object of the present invention is to provide a data interaction processing method, device and system, which can improve efficiency of data interaction.

[5] 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 sends the required information of the target data and the interaction request of preset threshold from the second

- terminal for responding the required information; and
- [6] Receive the multiple information of the second terminals for responding the interaction request sent by the server; and
- [7] The first terminal selects second terminal responding the interaction request and sends the feedback information including the information of the selected second terminal to the server; and
- [8] Receive the target data sent by the selected second terminal.
- [9] To solve the problem above, the second technical solution adopted by the present invention is to provide a data interaction process method, which includes: the server receives the required information of the target data and the interaction request of preset threshold from the second terminal for responding the required information; and
- [10] Search the second terminals matching with the required information according to the required information. Send the acquisition request of the target data to the searched second terminal when the quantity of the second terminal meets the requirement of the preset threshold; and
- [11] Send the information of the second terminal responding the acquisition request to the first terminal when the quantity of the second terminal responding the acquisition request meets the requirement of the preset threshold; and
- [12] Receive the feedback information of the selected second terminals sent by the first terminal, send the notification information to the corresponding second terminals according to the feedback information.
- [13] To solve the problem above, the third technical solution adopted by the present invention is to provide a data interaction process method, which includes that the first terminal sends the required information of the target data and the interaction request of preset threshold from the second terminal for responding the required information; and
- [14] The server searches the second terminals matching with the required information according to the required information, and sends the acquisition request of the target data to the searched second terminal when the quantity of the second terminal meets the requirement of the preset threshold; and
- [15] The second terminal sends the notification information to the corresponding second terminals to the server; and
- [16] The server sends the information of the second terminal responding the interaction request to the first terminal when the quantity of the second terminal responding the interaction request meets the

- requirement of the preset threshold; and
- [17] The first terminal selects the second terminals responding the interaction request, and sends the feedback information of the selected second terminals to the server; and
- [18] The server sends the notification information to the corresponding second terminals according to the feedback information; and
- [19] The second terminal sends the target data to the first terminal according to the notification information.
- [20] To solve the problem above, the forth technical solution adopted by the present invention is to provide a data interaction process system, which includes the first terminal, the server and the second terminal,
- [21] The first terminal is used to send the required information of the target data and the interaction request of preset threshold from the second terminal for responding the required information; and
- [22] The server is used to search the second terminals matching with the required information according to the required information, and send the acquisition request of the target data to the searched second terminal when the quantity of the second terminal meets the requirement of the preset threshold; and
- [23] The second terminal is used to send the target data to the first terminal according to the notification information; and
- [24] The server is also used to send the information of the second terminal responding the interaction request to the first terminal when the quantity of the second terminal responding the interaction request meets the requirement of the preset threshold; and
- [25] The first terminal is also used to select the second terminals responding the interaction request, and sends the feedback information of the selected second terminals to the server; and
- [26] The server is also used to send the notification information to the corresponding second terminals according to the feedback information; and
- [27] The second terminal is used to send the target data to the first terminal according to the notification information.
- [28] 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 sending module, a receiving module, and a control module, the sending module is used to send the required information of the target data and the interaction request of preset threshold from the second terminal for responding the required

information; and

- [29] The receiving module is used to receive the information of the second terminal responding the interaction request; and
- [30] The control module is used to select the second terminals responding the interaction request, and sends the feedback information of the selected second terminals to the server; and
- [31] The receiving module is used to receive the target data sent by the selected second terminal.
- [32] 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 receiving module, a control module and a sending module; the receiving module is used to receive the required information of the target data and the interaction request of preset threshold from the second terminal for responding the required information; and
- [33] The control module is used to search the second terminal matching with the required information, when the quantity of the second terminal meets the requirement of the preset threshold, the control module sends the acquisition request of the target data to the searched second terminals; and
- [34] The sending module is used to send the information of the second terminal responding the interaction request to the first terminal when the quantity of the second terminal responding the interaction request meets the requirement of the preset threshold; and
- [35] The receiving module is used to send the feedback information of the selected second terminals to the server and send the notification information to the corresponding second terminal according to the feedback information.
- [36] In the solution above, the first terminal sends the required information of the target data and the quantity of the second terminal responding the required information to the server; when the server obtains the responding second terminals among the second terminals as required, the first terminal notices that the second terminals send the target data to the first terminal. Foregoing target data is an Object Credit Certificate or acquisition method information of an Object Credit Certificate. This Object Credit Certificate 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 corresponding information refers to include the attributes information of the commodity (such as the name and the amount of money etc.) and the payment settlement information of the receiver's account. The acquisition method information of an Object Credit Certificate is a link address of an Object Credit Certificate, then the first terminal selects the

predefined amount of second terminals among the second terminals as required from the server to interact data, in order to improve the data's match level and interaction efficiency.

Brief Description of the Drawings

- [37] Figure 1 is a schematic flow chart of a data interaction processing method applied by the first example of the present invention;
- [38] Figure 2 is a schematic flow chart of a data interaction processing method applied by the second example of the present invention;
- [39] Figure 3 is a schematic flow chart of a data interaction processing method applied by the third example of the present invention;
- [40] Figure 4 is a schematic structural diagram of a data interaction processing device applied by the first example of the present invention;
- [41] Figure 5 is a schematic structural diagram of a data interaction processing device applied by the second example of the present invention;
- [42] Figure 6 is a schematic structural diagram of a data interaction processing device applied by the third example of the present invention.

Description of the Preferred Examples

- [43] For a clearer understanding of the objectives, technical solutions, and advantages of the present invention, the specific examples of the present invention will be described in detail with reference to the accompanying drawings.
- [44] 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 first terminal, the server and the second terminal.
- [45] Specifically, the data interaction processing method in this example includes the following steps:
- [46] Step 101: the first terminal sends the required information of the target data and the interaction request of preset threshold from the second terminal for responding the required information.
- [47] Thereinto, the required information comprises the identification information of the target data at least.
- [48] The preset threshold is set by the first terminal as required. The quantity threshold is used to help

- that the first terminal screens and confirms the target data provided by the multiple second terminals.
- [49] Step 102: the server searches the second terminals matching with the required information according to the required information. And the server sends the acquisition request of the target data to the searched second terminal when the quantity of the second terminal meets the requirement of the preset threshold.
- [50] The server receives the required information of the target data sent by the first terminal and responds the preset threshold of the second terminal as required, searches the second terminal matching with the required information wherein the local database according to the required information of the target data.
- [51] The server's data wherein the local database is provided and stored by the second terminal in advance.
- [52] The server sends the interaction request of the target data to all the searched second terminals when the quantity of the second terminal responding the acquisition request is greater than the quantity threshold.
- [53] The interaction request comprises the identified tag at least. The identified tag of the target data is used to enable the second terminal to acquire the corresponding Object Credit Certificate according to the identified tag of the target data.
- [54] The server can send the related information of the first terminal to the second terminal. For example, the contact information, the location information etc.
- [55] Step 103: the second terminal sends the response notification according to the request to the server.
- [56] The second terminal matching with the required information receives the interaction request of the target data sent by the server and confirms to respond the interaction request. The server sends the response information to the server when the second terminal confirms to respond the interaction request.
- [57] Thereinto, the response information includes the information of the second terminal responding to the interaction request. For example, the identified tag, the location information etc.
- [58] Step 104: the server sends the information of the second terminal responding the acquisition request to the first terminal when the quantity of the second terminal responding the acquisition request meets the requirement of the preset threshold.
- [59] The server receives the response information sent by the second terminal and calculates the quantity

of the second terminal responding the request when the second terminal sends the response information to the server. When the quantity of the second terminal meets the requirement of the preset threshold, the server sends the information of the second terminals responding the interaction request to the first terminal.

- [60] For example, the preset threshold sent by the first terminal to the server is 5, when the 5 second terminals sending the response information to the server, the server obtains the detailed information of 5 second terminals and sends them to the first terminal.
- [61] Step 105: the first terminal selects the second terminal responding to the interaction request and sends the feedback information of the selected second terminals to the server.
- [62] The first terminal receives the information of the second terminal responding to the interaction request sent by the server and compares all the received information of the second terminals and selects the second terminals which responded the interaction request, then the first terminal sends the feedback information to the server. Thereinto, the feedback information includes the selected information of the second terminals.
- [63] Step 106: the server sends the notification information to the corresponding second terminals according to the feedback information.
- [64] The server receives the feedback information of the selected second terminals sent by the first terminal, obtains the information of the selected second terminals and sends the notification information to the corresponding second terminals according to the feedback information.
- [65] Thereinto, the notification information is used to notice that the selected second terminals responds the interaction request successfully.
- [66] Step 107: the second terminal sends the target data to the first terminal according to the notification information.
- [67] When the server sends the notification information to the selected second terminals, the selected terminals receives the notification information from the server. The second terminal identifies that the response of the interaction request is successful and obtains the target data.
- [68] Thereinto, the Object Credit Certificate of the target data may be the executive object configured the required functions by data provider or the read method of target data.
- [69] Further, the second terminal sends the target data including the identification information of the second terminal to the first terminal.
- [70] The first terminal receives the target data.

- [71] Further, after the Step 107, the second terminal can receive the generated value-added data, which is generated by the target data's provider for providing the added interacting target data to the data unit of the second terminal.
- [72] 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. For example, when the first terminal or the second terminal(or other interaction parties) has the Object Credit Certificate of commodity/service, the link address can be clicked or selected, the certificate is opened directly and showed in the webpage, the webpage is used to provide the target commodity/service information and the essential functions of electronic commerce, such as the introduction of target commodity/service, specifications, purchasing records, reviews and the jumpable order generation interface or the link button of payment interface etc. More preferably, all the functions of the required order generation are completed automatically when the link can be clicked. In this way, the order generation can be completed by one-click, even the order generation and payment can be completed by one-click.
- [73] Give an example of data interaction method applied by the present invention. Thereinto, this first terminal is for buyer, the second terminal is for seller, the server is a server operating electronic commerce platform.
- [74] Specifically, the buyer sends the required information of commodity/service and the quantity threshold of the seller responding the required information to the server. The server receives the required information and searches the seller matching with the required information wherein the database. When the seller's data is greater than the quantity threshold, the server sends the purchasing request of commodity/service to all the sellers, the sellers receive the purchasing request and send the responding information to the server. The server receives the responding information and sends the responding information of the sellers to the buyer when the quantity of the sellers meets the requirement of the quantity threshold. The buyer confirms the purchasing request of the sellers and sends the confirmation result to the server. The server selects the seller's information based on the confirmation result and sends the notification information to the selected seller. The Object Credit Certificate of the commodity/service is sent by the selected seller to the buyer. The buyer accepts this Object Credit Certificate and completes the interaction.
- [75] As mentioned above, the Object Credit Certificate is provided by the commodity/service

provider (such as manufacturer of commodity) in advance, and every commodity/service has a corresponding Object Credit Certificate, which includes the information related to transaction information is from provider rather than the information of the second terminal. Therefore, when the first terminal receives this Object Credit Certificate, and the function of electronic commerce is achieved, and the order is generated according to this Object Credit Certificate. The two parties of transaction are the first terminal and the commodity/service provider. When the first terminal confirms to acceptance of Object Credit Certificate, and generate the order corresponding to the Object Credit Certificate, the payment for commodity/service can be paid to commodity/service provider, the provider will make a delivery when the provider accepts this order according to the information of the first terminal. The second terminal is used to acquire the Object Credit Certificate of commodity/service from provider and send the Object Credit Certificate to the buyer.

- [76] Further, the target data may be the executive object configured the required functions by data provider or the read method of target data.
- [77] An example of data interaction method applied by the present invention is showed as below.
- [78] For example, the first terminal is the client A, the server is the data management server, the second terminal is the client B. Thereinto, every client B has the stored one or multiple documents, which is used to store the solution information. 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.
- [79] The client A sends the required information of the solution information of the document X to the data management server and the requirement of the preset quantity threshold. The preset quantity threshold requires that the number of the document X acquired by the data management server should meet the requirement of the preset quantity threshold. Thereinto, X can be the solution tag. For example, the client A compares the preferred solutions among the solutions of the preset quantity and requires that the quantity of the document X acquired by the data management server can meet the requirement of the preset quantity.
- [80] The data management server pre-acquires and pre-stores all the information of the documents wherein every client B. When confirming that the information of the document X wherein the client B1-B5 meets the requirement of the required information, the data management server sends the required information of acquiring the solutions information of the document X to the client B1-B5.

- [81] When receiving the required information, the client B1-B5 confirms to store the solution information of the document X and sends the response information to the server.
- [82] The data management server receives the notification information and calculates the quantity of the client B sending the notification information. When the quantity of client B sending the notification information meets the requirement of the preset quantity (for example, the value of the preset threshold is 3, the number of client B sending the response information is 3, thereinto, the response information is sent by the client B2-B4), the data management server sends the information of the client B2-B4 to the client A.
- [83] The client A receives the information of the client B2-B4 and selects the preferred client B4 among the information of client B2-B4 and sends the confirmation to the data management server. Thereinto, the confirmation result includes the information of the client B4.
- [84] The data management server receives the confirmation and obtains the information of client B4 wherein the confirmation and sends the notification information to the client B4 in order to notice the client responding successfully.
- [85] The client B4 receives the notification information sent by the data management server, sends the corresponding Object Credit Certificate to the client A, it enables the client A executes this Object Credit Certificate or the corresponding functions to achieve the interaction of solution information of the document X. Thereinto, for safety of the data information, the Object Credit Certificate may be the encrypted data pack of solution information of the document X and the encryption key for deciphering the data pack. When receiving the Object Credit Certificate, the client A decipheres and unzips the data pack according to the encryption key and another encryption provided by the device sending the solution information of the document X, then obtains the solution information of the document X.
- [86] In the solution above, the first terminal sends the data interaction request and the quantity request of the second terminals providing the target to the server, the server sends the data interaction request to the eligible second terminals. When the quantity of the second terminal responding the acquisition request meets the requirement of the quantity of the first terminal, the server sends the information of the second terminal responding the acquisition request to the first terminal. It enables the first terminal to confirm to select the eligible second terminals. The information of the selected second terminal matches the interaction request based on its own Object Credit Certificate, and sends the matched Object Credit Certificate to the first terminal. The first terminal

receives the matched Object Credit Certificate and interacts the data. The server matches the related information of the target data wherein both the first terminal and the server. On one hand, the efficiency of the first terminal is improved, on the other hand, the safety of data transmission is improved when the second terminal transmits data.

- [87] 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 first terminal should be the buyer, the server should be the server of the electronic commerce platform, the second terminal should be the seller.
- [88] Please refer to Figure 2, Figure 2 is a schematic flow chart of a data interaction processing method applied by second 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:
- [89] Step 201: the first terminal sends the required information of the target data and the interaction request of preset threshold from the second terminal for responding the required information.
- [90] The first terminal sends the required information of commodity/service and the quantity threshold of the second terminal responding the required information to the server. The server receives the required information and searches the second terminals matching with the required information wherein the database. When the quantity of the second terminal meets the requirement of the quantity threshold, the server sends the interaction request of the target data to the searched second terminals. The first terminal confirms the purchasing request of the second terminals and sends the confirmation result to the server. The server selects the second terminals' information based on the confirmation result and sends the notification information to the selected second terminals.
- [91] Step 202: receive the multiple information of the second terminals for responding the interaction request sent by the server.
- [92] When the quantity of the second terminal meeting the requirement of the quantity threshold, the server sends the interaction request of the target data to the searched second terminals to the first terminal. The first terminal receives the information of the second terminal sent by the server and confirms to respond the corresponding second terminal and sends the feedback information to the server. It enables the server to send the notification information to the corresponding second terminals according to the feedback information. It is noticed that the second terminal sends the Object Credit Certificate of the target data to the first terminal; thereinto, the feedback information comprises the Object Credit Certificate of the second terminal responding the interaction request.

- [93] Step 203: the first terminal selects second terminal responding the interaction request and sends the feedback information including the information of the selected second terminal to the server.
- [94] Receive the target data sent by the selected second terminal.
- [95] In the solution above, the first terminal sends the data interaction request and the quantity request of the second terminals providing the target to the server, when the quantity of the second terminal responding the acquisition request meets the requirement of the quantity of the first terminal, the server sends the information of the second terminal responding the acquisition request to the first terminal. It enables the first terminal to confirm to select the eligible second terminals, and interact the second terminal, in order to improve the information's match level and the interaction's efficiency.
- [96] 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 server; the data interaction processing method in this example includes the following steps:
- [97] Step 301: the server receives the required information of the target data sent by the first terminal and responds the interaction request of the preset threshold of the second terminal as required.
- [98] The server receives the required information of the target data sent by the first terminal and responds the preset threshold of the second terminal as required.
- [99] Thereinto, the required information comprises the identification information of the target data at least. The preset threshold is set by the first terminal as required. The quantity threshold is used to help that the first terminal screens and confirms the target data provided by the multiple second terminals.
- [100] Step 302: the server searches the second terminals matching with the required information according to the required information. And the server sends the acquisition request of the target data to the searched second terminal when the quantity of the second terminal meets the requirement of the preset threshold.
- [101] The server searches the second terminal matching with the required information wherein the local database according to the required information of the target data.
- [102] The server's data wherein the local database is provided and stored by the second terminal in advance.
- [103] Step 303: the server sends the information of the second terminal responding the acquisition request to the first terminal when the quantity of the second terminal responding the acquisition request

meets the requirement of the preset threshold.

- [104] The second terminal matching with the required information receives the interaction request of the target data sent by the server and confirms to respond the interaction request. The server sends the response information to the server when the second terminal confirms to respond the interaction request. Thereinto, the response information includes the information of the second terminal responding to the interaction request.
- [105] The server sends the interaction request of the target data to all the searched second terminals when the quantity of the second terminal responding the acquisition request is greater than the quantity threshold; it enables the second terminal to confirm the received interaction request and send the notification information to the server.
- [106] The interaction request comprises the identified tag at least. The identified tag of the target data is used to enable the second terminal to acquire the corresponding Object Credit Certificate according to the identified tag of the target data.
- [107] The server can send the related information of the first terminal to the second terminal. For example, the contact information, the location information etc.
- [108] Thereinto, the response information includes the information of the second terminal responding to the interaction request. For example, the identified tag, the location information etc.
- [109] Step 304: receive the feedback information of the selected second terminals sent by the first terminal, send the notification information to the corresponding second terminals according to the feedback information.
- [110] The first terminal receives the information of the second terminal responding to the interaction request sent by the server and compares all the received information of the second terminals and selects the second terminals which responded the interaction request, then the first terminal sends the feedback information to the server. Thereinto, the feedback information includes the selected information of the second terminals.
- [111] The server receives the response information sent by the second terminal and calculates the quantity of the second terminal responding the request when the second terminal sends the response information to the server. When the quantity of the second terminal meets the requirement of the preset threshold, the server sends the information of the second terminals responding the interaction request to the first terminal. It enables the first terminal to send the feedback information when responding the interaction request of the second terminal according to the received information of

the second terminals.

[112] For example, the preset threshold sent by the first terminal to the server is 5, when the 5 second terminals sending the response information to the server, the server obtains the detailed information of 5 second terminals and sends them to the first terminal.

[113] Thereinto, the feedback information includes the selected information of the second terminals.

[114] The server receives the feedback information of the selected second terminals sent by the first terminal, obtains the information of the selected second terminals and sends the notification information to the corresponding second terminals according to the feedback information.

[115] Thereinto, the notification information is used to notice that the selected second terminals responds the interaction request successfully. It enables the selected second terminal by the first terminal to receive the notification information from the server and identifies the interaction request of the target data responded by the first terminal, and obtain the Object Credit Certificate of the target data, and send the Object Credit Certificate to the first terminal directly or through the server. It enables the first terminal to receive the Object Credit Certificate and confirm to execute this Object Credit Certificate or the corresponding functions to achieve the interaction of the target data.

[116] Further, the second terminal sends the target data including the identification information of the second terminal to the first terminal.

[117] In the solution above, the first terminal sends the data interaction request and the quantity request of the second terminals providing the target to the server, the server sends the data interaction request to the eligible second terminals. When the quantity of the second terminal responding the acquisition request meets the requirement of the quantity of the first terminal, the server sends the information of the second terminal responding the acquisition request to the first terminal. It enables the first terminal to confirm to select the eligible second terminals. The information of the selected second terminal matches the interaction request based on its own Object Credit Certificate, and sends the matched Object Credit Certificate to the first terminal. The first terminal receives the matched Object Credit Certificate and interacts the data. The server matches the related information of the target data wherein both the first terminal and the server. On one hand, the efficiency of the first terminal is improved, on the other hand, the safety of data transmission is improved when the second terminal transmits data.

[118] 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 device in

this example includes the first terminal 401, the server 402 and the second terminal 403,

[119] In this example, every module wherein the data interaction processing device is used to execute all the steps of the Figure 1, please refer to Figure 1 and the example of Figure 1 in details.

[120] The first terminal 401 is used to send the required information of the target data and the interaction request of preset threshold from the second terminal for responding the required information to the server 402.

[121] The server 402 is used to search the second terminals 403 matching with the required information according to the required information, and send the acquisition request of the target data to the searched second terminal 403 when the quantity of the second terminal 403 meets the requirement of the preset threshold.

[122] The second terminal 403 is used to send the response information to the server.

[123] The server 402 is also used to send the information of the second terminal responding the interaction request to the first terminal 401 when the quantity of the second terminal responding the interaction request meets the requirement of the preset threshold.

[124] The first terminal 401 is also used to select the second terminals 403 responding the interaction request, and sends the feedback information of the selected second terminals to the server.

[125] The server 402 is also used to send the notification information to the corresponding second terminals 403 according to the feedback information.

[126] The second terminal 403 is used to send the target data to the first terminal 401 according to the notification information.

[127] In the solution above, the first terminal sends the data interaction request and the quantity request of the second terminals providing the target to the server, when the quantity of the second terminal responding the acquisition request meets the requirement of the quantity of the first terminal, the server sends the information of the second terminal responding the acquisition request to the first terminal. It enables the first terminal to confirm to select the eligible second terminals, and interact the second terminal, in order to improve the information's match level and the interaction's efficiency.

[128] Please refer to Figure 5, Figure 5 is a schematic structural diagram of a data interaction processing device applied by the first example of the present invention. In this example, every module wherein the data interaction processing device is used to execute all the steps of the Figure 1, please refer to Figure 1 and the example of Figure 1 in details. The executive body of this example is the

first terminal. The data interaction processing device in this example includes a sending module 501, a receiving module 502 and a control module 503.

- [129] The sending module 501 is used to send the required information of the target data and the interaction request of preset threshold from the second terminal for responding the required information to the server.
- [130] The server searches the second terminals matching with the required information wherein the database. When the quantity of the second terminal meeting the requirement of the quantity threshold, the server sends the interaction request of the target data to the searched second terminals.
- [131] The receiving module 502 is used to receive the multiple information of the second terminals for responding the interaction request sent by the server.
- [132] The second terminal confirms to respond the interaction request and sends the feedback information to the server, then sends the notification information to the corresponding second terminal. It enables the second terminal to send the target data to the receiving module 502; thereinto, the feedback information includes the information of the second terminal.
- [133] The control module 503 is used to select the second terminals responding the interaction request, and send the feedback information of the selected second terminals to the server.
- [134] The receiving module 502 is also used to receive the target data sent by the selected second terminal.
- [135] In the solution above, the first terminal sends the data interaction request and the quantity request of the second terminals providing the target to the server, when the quantity of the second terminal responding the acquisition request meets the requirement of the quantity of the first terminal, the server sends the information of the second terminal responding the acquisition request to the first terminal. It enables the first terminal to confirm to select the eligible second terminals, and interact the second terminal, in order to improve the information's match level and the interaction's efficiency.
- [136] Please refer to Figure 6, Figure 6 is a schematic structural diagram of a data interaction processing device applied by the second example of the present invention; In this example, every module wherein the data interaction processing device is used to execute all the steps of the Figure 1, please refer to Figure 1 and the example of Figure 1 in details. The executive body of this example is the server corresponding to the Figure 1. The server should be the server. The data interaction processing device in this example includes a receiving module 601, a control module 602, and a

sending module 603.

- [137] The receiving module 601 is used to receive the required information of the target data and the interaction request of preset threshold from the second terminal for responding the required information sent by the first terminal.
- [138] The control module 602 is used to search the second terminals matching with the required information according to the required information and send the acquisition request of the target data to the searched second terminal when the quantity of the second terminal meeting the requirement of the preset threshold.
- [139] The sending module 603 is used to send the information of the second terminal responding the interaction request to the first terminal when the quantity of the second terminal responding the interaction request meets the requirement of the preset threshold.
- [140] The receiving module 601 is also used to receive the feedback information of the selected second terminals, and send the notification information to the corresponding second terminals according to the feedback information.
- [141] In the solution above, the first terminal sends the data interaction request and the quantity request of the second terminals providing the target to the server, the server sends the data interaction request to the eligible second terminals. When the quantity of the second terminal responding the acquisition request meeting the requirement of the quantity of the first terminal, the server sends the information of the second terminal responding the acquisition request to the first terminal. It enables the first terminal to confirm to select the eligible second terminals. The information of the selected second terminal matches the interaction request based on its own Object Credit Certificate, and sends the matched Object Credit Certificate to the first terminal. The first terminal receives the matched Object Credit Certificate and interacts the data. The server matches the related information of the target data wherein both the first terminal and the server. On one hand, the efficiency of the first terminal is improved, on the other hand, the safety of data transmission is improved when the second terminal transmits data.
- [142] 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.

Claims:

1. A data interaction processing system for increasing search efficiency in electronic commerce platforms including a first terminal, a server and at least one second terminal, the system comprising:

the first terminal, configured to:

send required information of target data and an interaction request including a pre-set threshold to a server, wherein the pre-set threshold is a quantity of second terminals required to respond to the required information;

receive information of a plurality of second terminals responding to the interaction request sent by the server;

select one of the second terminals responding to the interaction request;

send feedback information of a selected second terminal to the server; and

receive the target data sent by the selected second terminal.

the server, configured to:

receive the required information of target data and the interaction request including the pre-set threshold;

search second terminals matching with the required information according to the required information;

send the interaction request to each of the second terminals matching with the required information when the quantity of the second terminals matching with the required information meets the preset threshold;

send information of the second terminals responding to the interaction request to the first terminal when the quantity of the second terminals responding to the interaction request meets the pre-set threshold;

receive feedback information of the selected second terminal sent by the first terminal; and

send a notification to the selected second terminal according to the feedback information;

the second terminal, configured to:

send the target data according to the notification to the first terminal.

2. The system of claim 1, wherein the required information includes identification information of the target data at least.
3. The system of any one of claims 1 to 2, wherein the target data is an Object Credit Certificate.
4. The system of claim 3, wherein the Object Credit Certificate is a web-based electronic certificate integrating target commodity/service information from a target commodity/service provider and the essential functions of electronic commerce.
5. The system of claim 4, wherein the target commodity/service information includes attributes information.
6. The system of claim 5, wherein the attributes information includes a product's name.

7. The system of any one of claims 5 to 6, wherein the attributes information includes price information of the product.
8. The system of any one of claims 5 to 7, wherein the attributes information includes information of the settlement accounts of the provider.
9. The system of any one of claims 1 to 8, wherein the target data includes product information.
10. The system of any one of claims 1 to 9, wherein the target data includes text data.
11. The system of any one of claims 1 to 10, wherein the target data includes audio data.
12. The system of any one of claims 1 to 11, wherein the target data includes program data.
13. The system of any one of claims 1 to 12, wherein the target data includes fund data in the financial field.
14. The system of any one of claims 1 to 13, wherein the first terminal is a buyer's terminal.
15. The system of any one of claims 1 to 13, wherein the second terminal is a seller's terminal.
16. The system of any one of claims 1 to 13, wherein the server includes an electronic commerce platform.
17. A computer-implemented data interaction processing method applied a first terminal for increasing search efficiency in electronic commerce platforms, the method comprising:

sending required information of target data and an interaction request including a pre-set threshold to a server wherein the pre-set threshold is a quantity of second terminals required to respond to the required information;

receiving information of a plurality of second terminals responding to the interaction request sent by the server;

selecting one of the second terminals responding to the interaction request;

sending feedback information of a selected second terminal to the server; and

receiving the target data sent by the selected second terminal.

18. The method of claim 17 further includes:

generating a transaction order according to the target data.

19. The method of any one of claims 17 to 18, wherein the target data is an Object Credit Certificate.

20. The method of claim 19, wherein the Object Credit Certificate is a web-based electronic certificate integrating target commodity/service information from a target commodity/service provider and the essential functions of electronic commerce.

21. The method of claim 20, wherein the target commodity/service information includes attributes information.

22. The method of claim 21, wherein the attributes information includes a product's name.

23. The method of any one of claims 21 to 22, wherein the attributes information includes price information of the product.

24. The method of any one of claims 21 to 23, wherein the attributes information includes information of the settlement accounts of the provider.
25. The method of any one of claims 17 to 24, wherein the target data includes product information.
26. The method of any one of claims 17 to 25, wherein the target data includes text data.
27. The method of any one of claims 17 to 26, wherein the target data includes audio data.
28. The method of any one of claims 17 to 27, wherein the target data includes program data.
29. The method of any one of claims 17 to 28, wherein the target data includes fund data in the financial field.
30. The method of any one of claims 17 to 29, wherein the first terminal is a buyer's terminal.
31. The method of any one of claims 17 to 29, wherein the second terminal is a seller's terminal.
32. The method of any one of claims 17 to 29, wherein the server includes an electronic commerce platform.
33. The method of any one of claims 17 to 32, wherein the required information includes identification information of the target data at least.
34. A computer-implemented data interaction processing method applied in a server for increasing search efficiency in electronic commerce platforms, the method comprising:

receiving required information of target data and an interaction request including a pre-set threshold wherein the pre-set threshold is a quantity of second terminals required to respond to the required information;

searching second terminals matching with the required information according to the required information;

sending the interaction request to each of the second terminals matching with the required information when the quantity of the second terminals matching with the required information meets the preset threshold;

sending information of the second terminals responding to the interaction request to a first terminal when the quantity of the second terminal responding to the interaction request meets the pre-set threshold;

receiving feedback information of a selected second terminal sent by the first terminal;
and

sending a notification to the selected second terminal according to the feedback information.

35. The method of claim 34, wherein the required information includes identification information of the target data at least.
36. The method of any one of claims 34 to 35, wherein the target data is an Object Credit Certificate.
37. The method of claim 36, wherein the Object Credit Certificate is a web-based electronic certificate integrating target commodity/service information from a target commodity/service provider and the essential functions of electronic commerce.

38. The method of claim 37, wherein the target commodity/service information includes attributes information.
39. The method of claim 38, wherein the attributes information includes a product's name.
40. The method of any one of claims 38 to 39, wherein the attributes information includes price information of the product.
41. The method of any one of claims 38 to 40, wherein the attributes information includes information of the settlement accounts of the provider.
42. The method of any one of claims 34 to 41, wherein the target data includes product information.
43. The method of any one of claims 34 to 42, wherein the target data includes text data.
44. The method of any one of claims 34 to 43, wherein the target data includes audio data.
45. The method of any one of claims 34 to 44, wherein the target data includes program data.
46. The method of any one of claims 34 to 45, wherein the target data includes fund data in the financial field.
47. The method of any one of claims 34 to 46, wherein the first terminal is a buyer's terminal.
48. The method of any one of claims 34 to 46, wherein the second terminal is a seller's terminal.

49. The method of any one of claims 34 to 46, wherein the server includes an electronic commerce platform.

50. A computer-implemented data interaction processing method for increasing search efficiency in electronic commerce platforms, the method comprising:

a first terminal sends required information of target data and an interaction request including a pre-set threshold to a server wherein the pre-set threshold is the quantity of second terminals required to respond to the required information;

the server searches second terminals matching with the required information according to the required information;

the server sends the interaction request to each of the second terminals matching with the required information when the quantity of the second terminals matching with the required information meets the pre-set threshold;

the second terminals matching with the required information send response information according to the interaction request to the server;

the server sends information of the second terminals responding to the interaction request to the first terminal when the quantity of the second terminal responding to the interaction request meets the pre-set threshold;

the first terminal sends feedback information of a selected second terminal; and

the server sends a notification to the selected second terminal according to the feedback information.

51. The method of claim 50 further includes:

the selected second terminal sends the target data according to the notification to the first terminal.

52. The method of claim 50, wherein the required information includes identification information of the target data at least.
53. The method of any one of claims 49 to 52, wherein the target data is an Object Credit Certificate.
54. The method of claim 53, wherein the Object Credit Certificate is a web-based electronic certificate integrating target commodity/service information from a target commodity/service provider and the essential functions of electronic commerce.
55. The method of claim 54, wherein the target commodity/service information includes attributes information.
56. The method of claim 55, wherein the attributes information includes a product's name.
57. The method of any one of claims 55 to 56, wherein the attributes information includes price information of the product.
58. The method of any one of claims 55 to 57, wherein the attributes information includes information of the settlement accounts of the provider.
59. The method of any one of claims 50 to 58, wherein the target data includes product information.
60. The method of any one of claims 50 to 59, wherein the target data includes text data.
61. The method of any one of claims 50 to 60, wherein the target data includes audio data.

62. The method of any one of claims 50 to 61, wherein the target data includes program data.

63. The method of any one of claims 50 to 62, wherein the target data includes fund data in the financial field.

64. The method of any one of claims 50 to 63, wherein the first terminal is a buyer's terminal.

65. The method of any one of claims 50 to 63, wherein the second terminal is a seller's terminal.

66. The method of any one of claims 50 to 63, wherein the server includes an electronic commerce platform.

67. A data interaction processing device for increasing search efficiency in electronic commerce platforms, the device comprising:

a delivery module, configured to:

send required information of target data and an interaction request including a pre-set threshold to a server, wherein the pre-set threshold is the quantity of second terminals required to respond to the required information;

a receiving module, configured to:

receive information of a plurality of second terminals responding to the interaction request sent by the server; and

receive the target data sent by a selected second terminal;

a control module, configured to:

select one of the second terminals responding to the interaction request as the selected second terminal; and

send feedback information of the selected second terminal to the server.

68. The device of claim 67, wherein the required information includes identification information of the target data at least.
69. The device of any one of claims 67 to 68, wherein the target data is an Object Credit Certificate.
70. The device of claim 69, wherein the Object Credit Certificate is a web-based electronic certificate integrating target commodity/service information from a target commodity/service provider and the essential functions of electronic commerce.
71. The device of claim 70, wherein the target commodity/service information includes attributes information.
72. The device of claim 71, wherein the attributes information includes a product's name.
73. The device of any one of claims 71 to 72, wherein the attributes information includes price information of the product.
74. The device of any one of claims 71 to 73, wherein the attributes information includes information of the settlement accounts of the provider.
75. The device of any one of claims 67 to 74, wherein the target data includes product information.
76. The device of any one of claims 67 to 75, wherein the target data includes text data.

77. The device of any one of claims 67 to 76, wherein the target data includes audio data.
78. The device of any one of claims 67 to 77, wherein the target data includes program data.
79. The device of any one of claims 67 to 78, wherein the target data includes fund data in the financial field.
80. The device of any one of claims 67 to 79, wherein the first terminal is a buyer's terminal.
81. The device of any one of claims 67 to 79, wherein the second terminal is a seller's terminal.
82. The device of any one of claims 67 to 79, wherein the server includes an electronic commerce platform.
83. A data interaction processing device for increasing search efficiency in electronic commerce platforms, the device comprising:

a receiving module, configured to:

receive required information of target data and an interaction request including a pre-set threshold from a first terminal, wherein the pre-set threshold is the quantity of second terminals required to respond to the required information;

receive feedback information of a selected second terminal sent by the first terminal; and

send a notification to the selected second terminal according to the feedback information;

a control module, configured to:

search second terminals matching with the required information according to the required information; and

send the interaction request to each of the second terminals matching with the required information when the quantity of the second terminal matching with the required information meets the preset threshold;

a delivery module, configured to:

send information of a the second terminals responding to the interaction request to the first terminal when the quantity of the second terminal responding to the interaction request meets the pre-set threshold.

84. The device of claim 83, wherein the required information includes identification information of the target data at least.
85. The device of any one of claims 83 to 84, wherein the target data is an Object Credit Certificate.
86. The device of claim 85, wherein the Object Credit Certificate is a web-based electronic certificate integrating target commodity/service information from a target commodity/service provider and the essential functions of electronic commerce.
87. The device of claim 86, wherein the target commodity/service information includes attributes information.
88. The device of claim 87, wherein the attributes information includes a product's name.

89. The device of any one of claims 87 to 88, wherein the attributes information includes price information of the product.
90. The device of any one of claims 87 to 89, wherein the attributes information includes information of the settlement accounts of the provider.
91. The device of any one of claims 83 to 90, wherein the target data includes product information.
92. The device of any one of claims 83 to 91, wherein the target data includes text data.
93. The device of any one of claims 83 to 92, wherein the target data includes audio data.
94. The device of any one of claims 83 to 93, wherein the target data includes program data.
95. The device of any one of claims 83 to 94, wherein the target data includes fund data in the financial field.
96. The device of any one of claims 83 to 95, wherein the first terminal is a buyer's terminal.
97. The device of any one of claims 83 to 95, wherein the second terminal is a seller's terminal.
98. The device of any one of claims 83 to 95, wherein the server includes an electronic commerce platform.

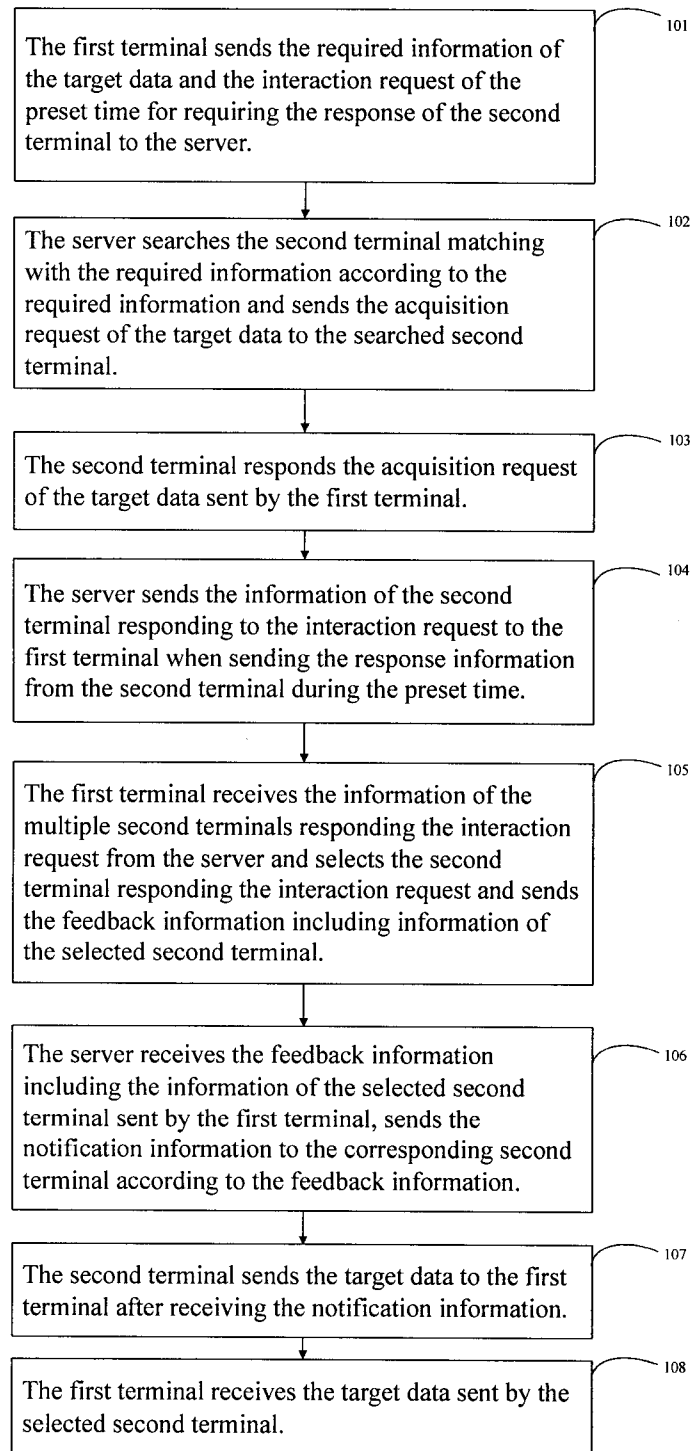


Figure 1

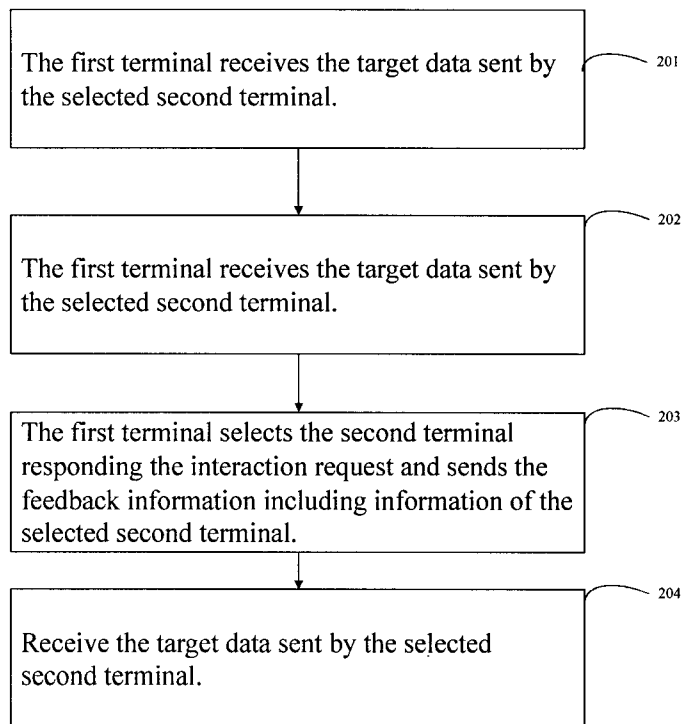


Figure 2

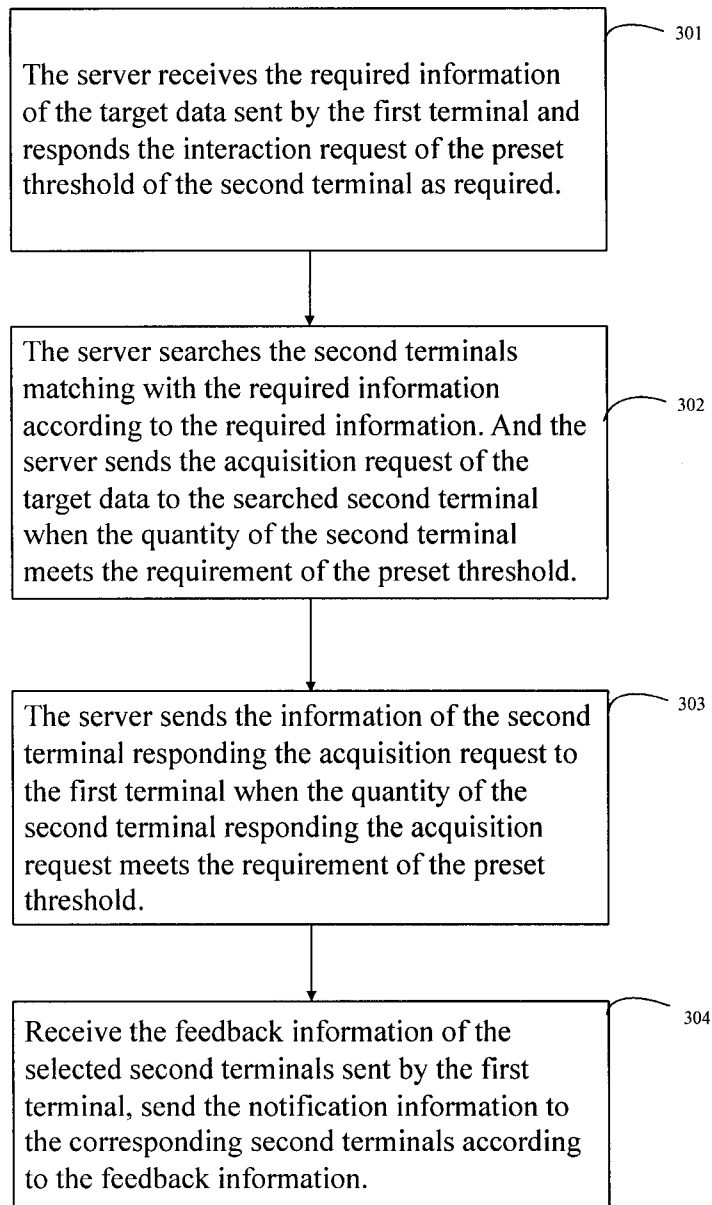


Figure 3

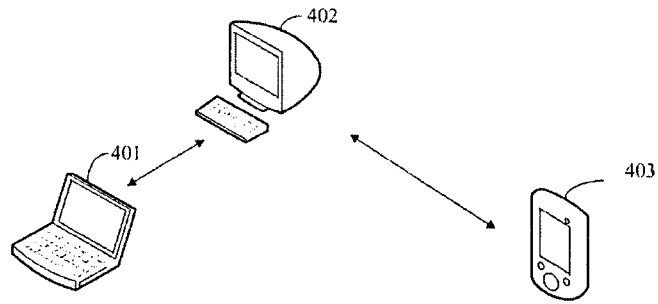


Figure 4

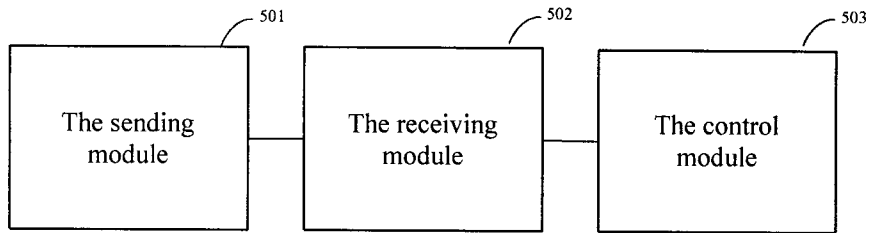


Figure 5

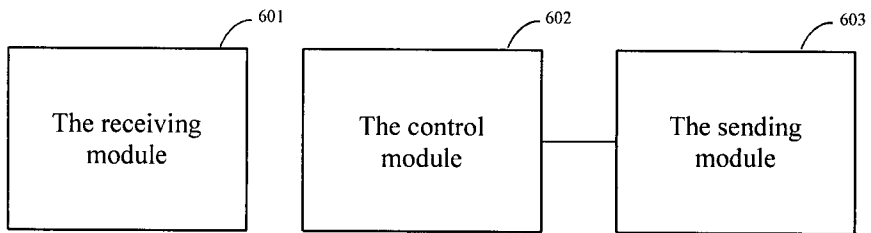


Figure 6

The first terminal receives the target data sent by the selected second terminal.

201

The first terminal receives the target data sent by the selected second terminal.

202

The first terminal selects the second terminal responding the interaction request and sends the feedback information including information of the selected second terminal.

203

Receive the target data sent by the selected second terminal.

204