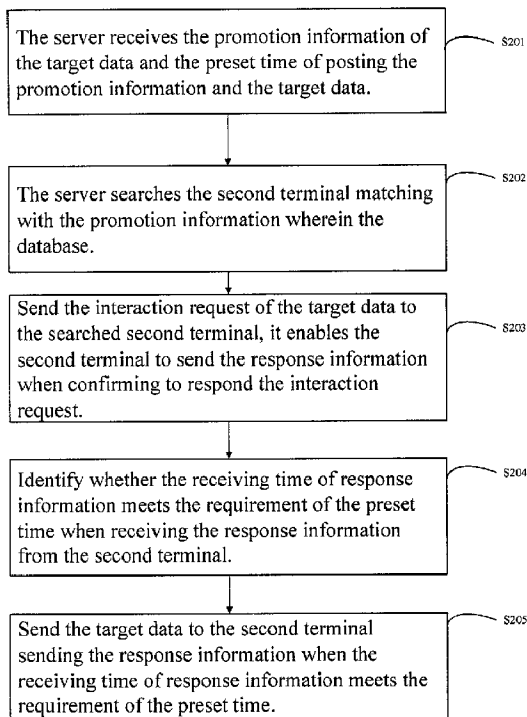




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(54) Titre : PROCÉDE, SYSTÈME ET TERMINAL DE TRAITEMENT D'INTERACTION D'INFORMATIONS  
 (54) Title: INFORMATION INTERACTION PROCESSING METHOD, SYSTEM AND TERMINAL



(57) **Abrégé/Abstract:**

Disclosed are an information interaction processing method, system and terminal. The information interaction processing method comprises: a server receives target data recommendation information, a preset time for responding to the recommendation

(57) **Abrégé(suite)/Abstract(continued):**

information and target data sent by a first terminal; according to the recommendation information, the server finds in a database a second terminal matching the recommendation information; the server sends a target data interaction request to the found second terminal, so that after confirming and responding to the interaction request, the second terminal sends response information to the server; the server confirms whether the time of receiving the response information satisfies a preset time requirement; when the time of receiving the response information satisfies the preset time requirement, the server sends the target data to the second terminal which sent the response information, so that the second terminal uses a product certificate to implement target data interaction. The present invention enables the first terminal to select from within a predetermined number of eligible servers a second terminal to ultimately perform interaction, thereby increasing the degree of information matching and the interaction efficiency.

### **Abstract**

Disclosed are an information interaction processing method, system and terminal. The information interaction processing method comprises: a server receives target data recommendation information, a preset time for responding to the recommendation information and target data sent by a first terminal; according to the recommendation information, the server finds in a database a second terminal matching the recommendation information; the server sends a target data interaction request to the found second terminal, so that after confirming and responding to the interaction request, the second terminal sends response information to the server; the server confirms whether the time of receiving the response information satisfies a preset time requirement; when the time of receiving the response information satisfies the preset time requirement, the server sends the target data to the second terminal which sent the response information, so that the second terminal uses a product certificate to implement target data interaction. The present invention enables the first terminal to select from within a predetermined number of eligible servers a second terminal to ultimately perform interaction, thereby increasing the degree of information matching and the interaction efficiency.

## Information Interaction Processing Method, System and Terminal

[1] Technical Field

[2] The present invention relates to the information 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, it enables the first terminal to select the target second terminal from the predetermined number of the qualified servers to improve the match level of the information and the efficiency of data interaction.

[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 server receives the promotion information of the target data and the preset time of responding the promotion information and the target data; search the second terminal matching with the promotion information wherein the database; send the interaction request of target data to the searched second terminal, it enables the second terminal to send the response information to the server when confirming to response the interaction request; identify whether the receiving time of response information meets the requirement of the preset time; send the target data to the second terminal sending the response information when the receiving time of response information meets the requirement of the preset time.

- [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 that the second terminal receives the interaction request of the target data sent by the server; thereinto, the interaction request is sent out by the server when the promotion information of the target data received; the interaction request includes the promotion information at least; identify whether the second terminal responds the interaction request according to the promotion information wherein the interaction request; when responding the interaction request, the second terminal sends the response information to the server, it enables the server to send the target data to the second terminal sending to the response information when the receiving time of response information meets the requirement of the preset time; thereinto, the preset time refers to the required time of responding the promotion information; when receiving the target data, the second terminal to complete the data interaction.
- [10] 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 promotion information of the target data and the preset time of responding the promotion information and the target data; the server searches the second terminal matching with the promotion information wherein the database; the server sends the interaction request of target data to the searched second terminal within the preset time; the second terminal sends the response information to the server when confirming to response the interaction request; the server identifies whether the receiving time of response information meets the requirement of the preset time; the server sends the target data to the second terminal sending the response information when the receiving time of response information meets the requirement of the preset time; the second terminal executes the related functions according to the target data to complete the data interaction.
- [11] To solve the problem above, the forth technical solution adopted by the present invention is to

provide a data interaction process device, which includes a receiving module, a querying module, a requesting module, a confirming module and an interacting module; the receiving module is used to receive the promotion information of the target data and the preset time of responding the promotion information and the target data; the querying module is used to search the second terminal matching with the promotion information wherein the database; the requesting module is used to send the interaction request of target data to the searched second terminal, it enables the second terminal to send the response information to the server when confirming to response the interaction request; the confirming module is used to confirm whether the receiving time of response information meets the requirement of the preset time; the interacting module is used to send the target data to the second terminal sending the response information when the receiving time of response information meets the requirement of the preset time, it enables the second terminal to execute the related functions according to the target data to complete the data interaction.

[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, a confirming module, a responding module and an interacting module; the receiving module is used to receive the interaction request of the target data sent by the server; thereinto, the interaction request is sent out by the server when the promotion information of the target data received; the interaction request includes the required information at least; the confirming module is used to identify whether the second terminal responds the interaction request according to the promotion information wherein the interaction request; the responding module is used to send the response information to the server when responding the interaction request, it enables the server to send the target data to the second terminal sending to the response information when the receiving time of response information meets the requirement of the preset time; thereinto, the preset time refers to the required time of responding the promotion information; the interacting module is used to execute the related functions according to the target data to complete the data interaction when receiving the target data.

[13] In the solution above, the server receives the promotion information of the target data and the preset time of responding the promotion information and the target data and sends the interaction request of target data set by the first terminal to the searched second terminal within the preset time, it enables the second terminal to send the response information to the server when confirming to response the interaction request; the server matches its own Object Credit Certificate with the promotion information and sends the matched Object Credit Certificate to the second terminal, it

enables the second terminal to complete the data interaction when the receiving time of response information meets the requirement of the preset time. The server matches the related information submitted by the first terminal and the second terminal in order to improve the interaction efficiency between the first terminal and the server. In addition, the first terminal can transfer the target data through the Object Credit Certificate to improve the safety of the data transmission.

#### [14] Brief Description

[15] Figure 1 is a schematic flow chart of a data interaction processing method applied by the first example of the present invention;

[16] Figure 2 is a schematic flow chart of a data interaction processing method applied by the second example of the present invention;

[17] Figure 3 is a schematic flow chart of a data interaction processing method applied by the third example of the present invention;

[18] Figure 4 is a schematic structural diagram of a data interaction processing device applied by the first example of the present invention;

[19] Figure 5 is a schematic structural diagram of a data interaction processing device applied by the second example of the present invention.

#### [20] Description of the Preferred Examples

[21] 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.

[22] 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. The data interaction processing method in this example includes the following steps:

[23] Step S101: the first terminal sends the promotion information of the target data and the preset time of responding the promotion information and the target data to the server.

[24] The first terminal sends the promotion information of the target data and the preset time of

responding the promotion information and the target data to the server.

- [25] Thereinto, the required information of the target data comprises the identification information of the target data at least, which may be the information of the name. To improve the accuracy of matching data, the required information of the target data also includes at least one of the information of specification and description.
- [26] The corresponding preset time of the responding promotion information may be the preset time (the specific moment, such as 9:00), the period of the preset time (the specific period, such as 8:00—9:00) and the preset value (such as 1 hour).
- [27] Further, the first terminal sends the Object Credit Certificate including the identification information of the first terminal to the server.
- [28] Step S102: the server searches the second terminal matching with the promotion information wherein the database.
- [29] The server receives the promotion information of the target data and the preset time of responding the promotion information and the target data and searches the second terminal matching with the promotion information wherein the database.
- [30] Further, when the corresponding preset time of the responding promotion information is the preset value (such as 1 hour), the server records the exact time when receiving the promotion information from the first terminal.
- [31] Step S103: the server sends the interaction request of target data to the searched second terminal.
- [32] The server sends the interaction request of target data to the searched second terminal when the promotion information of the target data matches with the searched second terminal.
- [33] The server also can send the related information of the first terminal to the second terminal, for example, contact information, location information etc.
- [34] Step S104: the second terminal sends the response information to the server when confirming to response the interaction request.
- [35] The server receives the interaction request of the target data sent by the first terminal and confirms whether the server responds the request. When confirming to respond the interaction request, the second terminal sends the response information to the server. Thereinto, the response information may include the identification tag of the target data.
- [36] Step S105: identify whether the receiving time of response information meets the requirement of the preset time when the server receives the response information.

- [37] The server receives the response information sent by the second terminal and confirms whether the receiving time of response information meets the requirement of the preset time.
- [38] Thereinto, when the corresponding preset time of the promotion information is the preset time (specific moment such as 9:00), the server identifies whether the receiving response time is earlier than the preset time. When the receiving response time is earlier than the preset time, it means that the receiving response time meets the requirement of the preset time. Thereinto, this preset time refers to the deadline of responding the required information.
- [39] When the corresponding preset time of the promotion information is the period of the preset time (the specific period, such as 8:00—9:00), the server identifies whether the receiving response time is wherein this period of the preset time. When the receiving response time is earlier than the maximum value of his period of the preset time and later than the minimum value of this period of the preset time, it means that the receiving response time meets the requirement of this period of the preset time. Thereinto, this period of the preset time refers to the effective period of responding the promotion information.
- [40] When the corresponding preset time of the promotion information is the preset value (such as 1hour), the server compares the responding time and the exact time of sending the promotion information recorded by the Step S202. It enables the server to identify whether the responding time meets the requirement of the preset time.
- [41] It means that the server calculates the responding time of the received response information and the time interval of the received the promotion information and identifies whether the time interval is shorter than the preset value (the time interval can equal to the preset time as well). When the time interval is shorter than the preset value, the responding time meets the requirement of the preset value.
- [42] Step S106: send the target data to the second terminal sending the response information when the receiving time of response information meets the requirement of the preset time.
- [43] Once the server confirms that the responding time of the received response information meets the requirement of the preset time. The server acquires the Object Credit Certificate matching with the target data corresponding to the response information and sends the acquired target data to the responding second terminal, whose response information is sent on time.
- [44] For example, when the responding time of sending the response information meeting the requirement of the preset time and the second terminal sending the response information, the server

confirms the Object Credit Certificate matching with the promotion information and sends the matched Object Credit Certificate to the second terminal.

- [45] Step S107: when receiving the target data, the second terminal executes the target data or enables the corresponding functions to complete the data interaction.
- [46] The second terminal receives the target data sent by the server. The target data can be identified the data interaction whether executed. When confirming to accept this Object Credit Certificate, executes the Object Credit Certificate or enables the corresponding functions to complete the data interaction. When confirming to refuse, refuse to accept this Object Credit Certificate.
- [47] Further, after the Step S207, the first terminal also 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 first terminal.
- [48] An example of data interaction method applied by the present invention is showed as below.
- [49] 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 A 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.
- [50] The client A sends the promotion information of the solution information including the document X and the interaction request of the preset time for responding the promotion information to the data management server. The time is required as the time of responding the promotion information from the client B. Thereinto, X may be the identification of the solution. For example, the client A needs to post the promotion information at some time and requires the data management server to acquire the solution information of the document X responded by the client B on a basis of this promotion information at that time.
- [51] This data management server acquired and stored the information of all the documents wherein the client B in advance. When receiving the interaction request and confirming the information of the document X wherein the client B1-B2 matching with the requirement of the promotion information, the data management server sends the request of acquisition of the solution information of the document X to the client B1-B2 at the preset time.
- [52] When the client B1-B2 receiving the request and confirming to the stored solution information of the document X and responding the interaction request, the client B1-B2 sends the response

information to the data management server.

- [53] The data management server receives the response information and calculates the responding time of the received response information. When the responding time meeting the requirement of the preset time ( such as, the preset time is 9:00, the responding time of the received response information sent by the client B1 is 8:35, the responding time of the received response information sent by the client B2 is 9:05), the data management server sends the corresponding Object Credit Certificate to the client B1, it enables the client B1 to accept the Object Credit Certificate and executes the target data or enables the corresponding functions to complete the data interaction of the solution information of the document X. Thereinto, for safety of data information, the Object Credit Certificate may be the data pack encrypted by the solution information of the document X and the encryption keys for deciphering. When accepted by the client B1, the data pack can be deciphered and unzipped using with the encryption keys and another encryption key encrypted by the solution information of the document X, then the solution information of the document X can be obtained.
- [54] 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 seller, the server should be the server of the electronic commerce platform, the second terminal should be the buyer.
- [55] In the solution above, the first terminal sends the promotion information of the target data and the preset time of responding the promotion information to the server, the server sends the promotion information of the target data to the qualified second terminals, it enables the second terminal to send the response information to the server when confirming to respond this request. The server sends the matched Object Credit Certificate to the qualified second terminal when the time of responding the promotion information from the second terminal meeting the preset time from the first terminal. It enables the second terminal to complete the data interaction. The server can match the promotion request from the first terminal and the interaction request from the second terminal. On one hand, the interaction efficiency between the server and the first terminal can be improved; on the other hand, the first terminal can transfer the target data through the Object Credit Certificate to improve the safety of the data transmission.
- [56] 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:

- [57] Step S201: the server receives the promotion information of the target data and the preset time of posting the promotion information and the target data.
- [58] The server receives the promotion information of the target data and the preset time of posting the promotion information and the target data.
- [59] Thereinto, the promotion information of the target data comprises the identification information of the target data at least, the identification information may be the name information. To improve the accuracy of matching data, the promotion information of the target data also includes at least one of the information of specification and description.
- [60] The corresponding preset time of the responding promotion information may be the preset time (the specific moment, such as 9:00), the period of the preset time (the specific period, such as 8:00—9:00) and the preset value (such as 1 hour).
- [61] Further, when the corresponding preset time of the responding promotion information is the preset value (such as 1 hour), the server records the exact time when receiving the promotion information from the first terminal.
- [62] 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.
- [63] Further, the first terminal sends the Object Credit Certificate including the identification information of the first terminal to the server.
- [64] Step S202: the server searches the second terminal matching with the promotion information wherein the database.
- [65] The server searches the second terminal matching with the promotion information wherein the database.
- [66] Step S203: send the interaction request of the target data to the searched second terminal, it enables the second terminal to send the response information when confirming to respond the interaction request.
- [67] When searching out the matched second terminal, the server sends the interaction request of the target data to the searched second terminal, it enables the sever to identify whether responding this request when receiving the interaction request from the first terminal. When confirming to respond the interaction request, the searched second terminal sends the response information to the server. Thereinto, the response information may include the identification information of the target data.

- [68] The server may send the related information of the first terminal to the second terminal, such as the contact information, the location information etc.
- [69] Step S204: identify whether the receiving time of response information meets the requirement of the preset time when receiving the response information from the second terminal.
- [70] The server receives the response information sent by the second terminal and identifies whether the receiving time of response information meets the requirement of the preset time.
- [71] Thereinto, when the corresponding preset time of the promotion information is the preset time (specific moment such as 9:00), the server identifies whether the receiving response time is earlier than the preset time. When the receiving response time is earlier than the preset time, it means that the receiving response time meets the requirement of the preset time. Thereinto, this preset time refers to the deadline of responding the required information.
- [72] When the corresponding preset time of the promotion information is the period of the preset time (the specific period, such as 8:00—9:00), the server identifies whether the receiving response time is wherein this period of the preset time. When the receiving response time is earlier than the maximum value of his period of the preset time and later than the minimum value of this period of the preset time, it means that the receiving response time meets the requirement of this period of the preset time. Thereinto, this period of the preset time refers to the effective period of responding the promotion information.
- [73] When the corresponding preset time of the promotion information is the preset value (such as 1 hour), the server compares the responding time and the exact time of sending the promotion information recorded by the Step S301. It enables the server to identify whether the responding time meets the requirement of the preset time.
- [74] It means that the server calculates the responding time of the received response information and the time interval of the received the promotion information and identifies whether the time interval is shorter than the preset value (the time interval can equal to the preset time as well). When the time interval is shorter than the preset value, the responding time meets the requirement of the preset value.
- [75] Step S205: send the target data to the second terminal sending the response information when the receiving time of response information meets the requirement of the preset time.
- [76] Once the server confirms that the responding time of the received response information meets the requirement of the preset time. The server acquires the Object Credit Certificate matching with the

target data corresponding to the response information and sends the acquired target data to the responding second terminal, whose response information is sent on time. It enables the second terminal to receive the Object Credit Certificate and execute it or enable the corresponding functions to complete the data interaction.

- [77] For example, when the responding time of sending the response information meeting the requirement of the preset time and the second terminal sending the response information, the server confirms the Object Credit Certificate matching with the promotion information and sends the matched Object Credit Certificate to the second terminal.
- [78] The second terminal receives the target data sent by the server, the target data can be identified the data interaction whether executed. When confirming to accept this Object Credit Certificate, executes the Object Credit Certificate or enables the corresponding functions to complete the data interaction. When confirming to refuse, refuse to accept this Object Credit Certificate.
- [79] Further, 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.
- [80] 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.
- [81] Further, after the Step S205, the first terminal also 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 first terminal.
- [82] In the solution above, the server sends the interaction request of the target data to the qualified second terminals according to the promotion information of the target data and the preset time of responding the promotion information sent by the first terminal, it enables the second terminal to send the response information to the server when confirming to respond this request. The server sends the matched Object Credit Certificate to the qualified second terminal when the time of responding the promotion information from the second terminal meeting the preset time from the first terminal. It enables the second terminal to complete the data interaction. The server can match the promotion request from the first terminal and the interaction request from the second terminal. On one hand, the interaction efficiency between the server and the first terminal can be improved; on the other hand, the first terminal can transfer the target data through the Object Credit Certificate

to improve the safety of the data transmission.

- [83] 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 second terminal; the data interaction processing method in this example includes the following steps:
- [84] Step S301: the second terminal receives the interaction request of the target data sent by the server; thereinto, the interaction request is sent out by the server when the promotion information of the target data received; the interaction request includes the promotion information at least.
- [85] The second terminal receives the interaction request of the target data sent by the server when the server posting the interaction request. Thereinto, the interaction request is sent out by the server when the promotion information of the target data received; the interaction request includes the promotion information at least.
- [86] Step S302: identify whether the second terminal responds the interaction request according to the promotion information of the first target data wherein the interaction request.
- [87] The second terminal identifies whether to respond the interaction request according to the promotion information of the first target data wherein the interaction request.
- [88] Step S303: when responding the interaction request, the second terminal sends the response information to the server, it enables the server to send the target data to the second terminal sending to the response information when the receiving time of response information meeting the requirement of the preset time; thereinto, the preset time refers to the required time of responding the promotion information.
- [89] When responding the interaction request, the second terminal sends the response information to the server, it enables the server to send the target data to the second terminal sending to the response information when the receiving time of response information meeting the requirement of the preset time.
- [90] Thereinto, the preset time refers to the required time of responding the promotion information. The preset time means the preset moment, the preset time period or the preset value.
- [91] Step S304: when receiving the target data, the second terminal executes the related functions according to the target data to complete the data interaction.
- [92] When receiving the target data, the second terminal executes the related functions according to the target data to complete the data interaction.

- [93] Further, 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.
- [94] In the solution above, the second terminal sends the response information to the server when confirming to respond the request of the promotion information of the target data sent by the server. The server sends the target data to the second terminal sending to the response information when the receiving time of response information meeting the requirement of the preset time, it enables the second terminal to execute the related functions according to the Object Credit Certificate to complete the data interaction. The data can be interacted only when the responding time wherein the effective time. It enables the first terminal and the second terminal to improve their match level of the information and simplify the process of the data interaction, so that the interaction efficiency should be improved.
- [95] Please refer to Figure 4, Figure 4 is a schematic structural diagram of a data interaction processing device applied by an 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 3, please refer to Figure 2 and the example of Figure 2 in details. The data interaction processing device is corresponding to the executive body of this example of the Figure 2 is the server, the server can be a server. The data interaction processing device in this example includes a receiving module 410, a querying module 420, a requesting module 430, a confirming module 440 and an interacting module 450.
- [96] The receiving module 410 is used to receive the promotion information of the target data and the preset time of responding the promotion information and the target data.
- [97] The querying module 420 is used to search the second terminal wherein the database matching with the promotion information received by the receiving module 410.
- [98] The requesting module 430 is used to send the interaction request of target data to the second terminal searched by the querying module 420, it enables the searched second terminal to send the response information to the server when confirming to response the interaction request.
- [99] The confirming module 440 is used to confirm whether the receiving time of response information meets the requirement of the preset time.
- [100] The interacting module 450 is used to send the target data to the second terminal sending the response information when the confirming module 440 confirmed the receiving time of response

information meeting the requirement of the preset time, it enables the second terminal to execute the related functions according to the target data to complete the data interaction.

[101] In the solution above, the server receives the promotion information of the target data and the preset time of responding the promotion information and the target data and sends the interaction request of target data set by the first terminal to the searched second terminal, it enables the second terminal to send the response information to the server when confirming to response the interaction request within the preset time; the server matches its own Object Credit Certificate with the promotion information and sends the matched Object Credit Certificate to the second terminal, it enables the second terminal to complete the data interaction when the receiving time of response information meets the requirement of the preset time. The server matches the related information submitted by the first terminal and the second terminal in order to improve the interaction efficiency between the first terminal and the server. In addition, the first terminal can transfer the target data through the Object Credit Certificate to improve the safety of the data transmission.

[102] Please refer to Figure 5, Figure 5 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 3, please refer to Figure 3 and the example of Figure 3 in details. The data interaction processing device is corresponding to the executive body of this example of the Figure 3 is the server, the server can be a server. The data interaction processing device in this example includes a receiving module 510, a confirming module 520, a responding module 530 and an interacting module 540.

[103] The receiving module 510 is used to receive the interaction request of the target data sent by the server; thereinto, the interaction request is sent out by the server when the promotion information of the target data received; the interaction request includes the required information at least.

[104] The confirming module 520 is used to identify whether the second terminal responds the interaction request according to the promotion information wherein the interaction request.

[105] The responding module 530 is used to send the response information to the server when responding the interaction request, it enables the server to send the target data to the second terminal sending to the response information when the receiving time of response information meets the requirement of the preset time; thereinto, the preset time refers to the required time of responding the promotion information.

[106] The interacting module 540 is used to execute the related functions according to the target data to

complete the data interaction when receiving the target data.

[107] In the solution above, the second terminal sends the response information to the server when confirming to respond the request of the promotion information of the target data sent by the server. The server sends the target data to the second terminal sending to the response information when the receiving time of response information meeting the requirement of the preset time, it enables the second terminal to execute the related functions according to the Object Credit Certificate to complete the data interaction. The data can be interacted only when the responding time wherein the effective time. It enables the first terminal and the second terminal to improve their match level of the information and simplify the process of the data interaction, so that the interaction efficiency should be improved.

[108] 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 system for information interaction processing, the system comprising:

a first terminal configured to send promotion information of a target data and a pre-set response time for the promotion information and the target data;

a computer server configured to:

search for information of a second terminal recorded in a database wherein the information of the second terminal includes the promotion information of the target data that matches the promotion information of the target data sent by the first terminal;

send a request for interacting the target data to the second terminal, to enable the second terminal to send response information to the computer server once the second terminal has accepted the request for interacting the target data;

identify whether a receiving time of the response information is within the pre-set response time for improving a match level between the first terminal and the second terminal; and

if the receiving time of the response information is within the pre-set response time send the target data to the second terminal, to enable the second terminal to execute corresponding functions for interacting the target data between the first terminal and the second terminal

the second terminal configured to:

determine whether to respond the request according to the promotion information of the target data when receiving the request for interacting the target data, wherein the request for interacting the target data includes the promotion information of the target data at least, wherein the request is sent by the computer server after the computer server receiving the promotion information of the target data;

if the second terminal confirmed to respond the request, , send the response information to the computer server to enable the computer server to send the target data to the second terminal when the receiving time of the response information is within the pre-set response time;; and

receive the target data from the computer server and execute the corresponding functions for interacting the target data between the first terminal and the second terminal.

wherein the computer server is communicatively connected to the second terminal and stores the information of the second terminal in the database.

2. The system of claim 1, wherein the pre-set response time may be a pre-set moment.
3. The system of claim 2, wherein the computer server is further configured to identify whether the receiving time of the response information is before the pre-set response time, when the pre-set response time is the pre-set moment.
4. The system of claim 2, wherein the computer server is further configured to identify whether the receiving time of the response information matches the pre-set response time, when the pre-set response time is the pre-set moment.

5. The system of claim 1, wherein the pre-set response time may be a pre-set time interval.
6. The system of any one of claims 1 and 5, wherein the computer server is further configured to identify whether the receiving time of the response information is within the pre-set response time, when the pre-set response time is the pre-set time interval.
7. The system of claim 1, wherein the pre-set response time may be a pre-set value.
8. The system of any one of claims 1 and 7, wherein the computer server is further configured to identify whether a time interval between the receiving time of the response information and confirmation time for responding to the request is less than the pre-set response time, when the pre-set response time is the pre-set value.
9. The system of any one of claims 1 and 7, wherein the computer server is further configured to identify whether the time interval between the receiving time of the response information and confirmation time for responding to the request is equal to the pre-set response time, when the pre-set response time is the pre-set value.
10. The system of any one of claims 1 to 9, wherein the target data is an Object Credit Certificate that is a web-based electronic certificate integrated target commodity or service information from a target commodity or service provider and essential functions of electronic commerce .
11. The system of any one of claims 1 to 9, wherein the target data is the information about an obtaining method of the Object Credit Certificate.
12. A method for information interaction processing, applied in a computer server, the method includes:

receiving promotion information of a target data and a pre-set response time sent by a first terminal for the promotion information and the target data;

searching for information of a second terminal recorded in a database wherein the information of the second terminal includes the promotion information of the target data that matches the promotion information of the target data sent by the first terminal;

sending a request for interacting the target data to the second terminal, to enable the second terminal to send response information to the computer server once the second terminal has accepted the request for interacting the target data ;

identifying whether a receiving time of the response information is within the pre-set response time for improving a match level of the second terminal; and

if the receiving time of the response information is within the pre-set response time, sending the target data to the second terminal, to enable the second terminal to execute corresponding functions for interacting the target data between the first terminal and the second terminal; and

wherein the computer server is communicatively connected to the second terminal and stores the information of the second terminal in the database.

13. The method of claim 12, wherein the pre-set response time may be a pre-set moment.
14. The method of claim 13 further includes identifying whether the receiving time of the response information is before the pre-set response time, when the pre-set response time is the pre-set moment.
15. The method of claim 13 further includes identifying whether the receiving time of the response information matches the pre-set response time, when the pre-set response time is the pre-set moment.
16. The method of claim 12, wherein the pre-set response time may be a pre-set time interval.

17. The method of any one of claims 12 and 16 further includes identifying whether the receiving time of the response information is within the pre-set response time, when the pre-set response time is the pre-set time interval.
18. The method of claim 12, wherein the pre-set response time may be a pre-set value.
19. The method of any one of claims 12 and 18 further includes identifying whether a time interval between the receiving time of the response information and confirmation time for responding to the request is less than the pre-set response time, when the pre-set response time is the pre-set value.
20. The method of any one of claims 12 and 18 further includes identifying whether the time interval between the receiving time of the response information and confirmation time for responding to the request is equal to the pre-set response time, when the pre-set response time is the pre-set value.
21. The method of any one of claims 12 to 20, wherein the target data is an Object Credit Certificate that is a web-based electronic certificate integrated target commodity or service information from a target commodity or service provider and essential functions of electronic commerce.
22. The method of any one of claims 12 to 20, wherein the target data is the information about an obtaining method of the Object Credit Certificate.
23. A method for information interaction processing, applied in a second terminal, the method includes:

determining whether to respond a request according to promotion information of a target data when receiving the request for interacting the target data, wherein the request for interacting the target data includes promotion information of the target data at least, wherein the request is sent by a computer server after the computer server receiving the promotion information of the target data;

if sending the response information to the computer server, wherein the method includes confirming to response the request, to enable the computer server to send the target data to the second terminal when a receiving time of the response information is within a pre-set response time;; and

receiving the target data and executing corresponding functions for interacting the target data between the first terminal and the second terminal; and

wherein the computer server is communicatively connected to the second terminal and stores the information of the second terminal in the database.

24. The method of claim 23 further includes receiving value-added data by a provider of the target data.
25. The method of claim 23, wherein the pre-set response time may be a pre-set moment.
26. The method of claim 25 further includes identifying whether the receiving time of the response information is before the pre-set response time, when the pre-set response time is the pre-set moment.
27. The method of claim 25 further includes identifying whether the receiving time of the response information matches the pre-set response time, when the pre-set response time is the pre-set moment.

28. The method of claim 23, wherein the pre-set response time may be a pre-set time interval.
29. The method of any one of claims 23 and 28 further includes identifying whether the receiving time of the response information is within the pre-set response time, when the pre-set response time is the pre-set time interval.
30. The method of claim 23, wherein the pre-set response time may be a pre-set value.
31. The method of any one of claims 23 and 30 further includes identifying whether a time interval between the receiving time of the response information and confirmation time for responding to the request is less than the pre-set response time, when the pre-set response time is the pre-set value.
32. The method of any one of claims 23 and 30 further includes identifying whether the time interval between the receiving time of the response information and confirmation time for responding to the request is equal to the pre-set response time, when the pre-set response time is the pre-set value.
33. The method of any one of claims 23 to 32, wherein the target data is an Object Credit Certificate that is a web-based electronic certificate integrated target commodity or service information from a target commodity or service provider and essential functions of electronic commerce.
34. The method of any one of claims 23 to 32, wherein the target data is the information about an obtaining method of the Object Credit Certificate.
35. A terminal for information interaction processing, the terminal including:

a receiving module, configured to receive a request for interacting a target data, wherein the request for interacting the target data includes promotion information of the target data at least, wherein the request is sent by a computer server after the computer server receiving the promotion information of the target data;

a querying module, configured to search information of a second terminal in a database, wherein the information of the second terminal includes the promotion information of the target data that matches the promotion information of the target data sent by a first terminal ;

a requesting module, configured to send a request for interacting the target data to the second terminal, to enable the second terminal to send response information to the computer server once the second terminal has accepted the request for interacting the target data;

a confirming module, configured to identify whether a receiving time of the response information is within the pre-set response time for improving a match level of the information and efficiency of data interaction;

an interacting module, configured to send the target data to the second terminal , to enable the second terminal to execute corresponding functions for interacting the target data between the first terminal and the second terminal, if the receiving time of the response information is within the pre-set response time; and

wherein the computer server is communicatively connected to the second terminal and stores the information of the second terminal in the database.

36. The terminal of claim 35, wherein the pre-set response time may be a pre-set moment.

37. The terminal of claim 36, wherein the confirming module is further configured to identify whether the receiving time of the response information is before the pre-set response time, when the pre-set response time is the pre-set moment.
38. The terminal of claim 36, wherein the confirming module is further configured to identify whether the receiving time of the response information matches the pre-set response time, when the pre-set response time is the pre-set moment.
39. The terminal of claim 35, wherein the pre-set response time may be a pre-set time interval.
40. The terminal of any one of claims 35 and 39, wherein the confirming module is further configured to identify whether the receiving time of the response information is within the pre-set response time, when the pre-set response time is the pre-set time interval.
41. The terminal of claim 35, wherein the pre-set response time may be a pre-set value.
42. The terminal of any one of claims 35 and 41, wherein the confirming module is further configured to identify whether a time interval between the receiving time of the response information and a confirmation time for responding the request less than the pre-set response time, when the pre-set response time is the pre-set value.
43. The terminal of any one of claims 35 and 41, wherein the confirming module is further configured to identify whether the time interval between the receiving time of the response information and confirmation time for responding to the request is equal to the pre-set response time, when the pre-set response time is the pre-set value.
44. The terminal of any one of claims 35 to 43, wherein the target data is an Object Credit Certificate that is a web-based electronic certificate integrated target commodity or service information from a target commodity or service provider and essential functions of electronic commerce.

45. The terminal of any one of claims 35 to 43, wherein the target data is the information about an obtaining method of the Object Credit Certificate.

46. A terminal for information interaction processing, the terminal includes:

a receiving module, configured to receive a request for interacting a target data, wherein the request for interacting the target data includes promotion information of the target data at least, wherein the request is sent by a computer server after the computer server receiving the promotion information of the target data;

a confirming module, configured to determine whether to respond the request according to the promotion information of the target data when receiving the request for interacting the target data;

a responding module, configured to send the response information to the computer server, if confirming to response the request, to enable the computer server to send the target data to the second terminal when a receiving time of the response information is within a pre-set response time; ; and

an interacting module, configured to execute corresponding functions for interacting the target data between the first terminal and the second terminal when receiving the target data; and

wherein the computer server is communicatively connected to the second terminal and stores the information of the second terminal in the database.

47. The terminal of claim 46, wherein the pre-set response time may be a pre-set moment.

48. The terminal of any one of claims 46 to 47, wherein the confirming module is further configured to identify whether the receiving time of the response information is before the pre-set response time, when the pre-set response time is the pre-set moment.
49. The terminal of any one of claims 46 to 47, wherein the confirming module is further configured to identify whether the receiving time of the response information matches the pre-set response time, when the pre-set response time is the pre-set moment.
50. The terminal of claim 46, wherein the pre-set response time may be a pre-set time interval.
51. The terminal of any one of claims 46 and 50, wherein the confirming module is further configured to identify whether the receiving time of the response information is within the pre-set response time, when the pre-set response time is the pre-set time interval.
52. The terminal of claim 46, wherein the pre-set response time may be a pre-set value.
53. The terminal of any one of claims 46 and 52, wherein the confirming module is further configured to identify whether a time interval between the receiving time of the response information and confirmation time for responding to the request is less than the pre-set response time, when the pre-set response time is the pre-set value.
54. The terminal of any one of claims 46 and 52, wherein the confirming module is further configured to identify whether the time interval between the receiving time of the response information and confirmation time for responding to the request is equal to the pre-set response time, when the pre-set response time is the pre-set value.
55. The terminal of any one of claims 46 to 54, wherein the target data is an Object Credit Certificate that is a web-based electronic certificate integrated target commodity/service information from a target commodity/service provider and essential functions of electronic commerce.

56. The terminal of any one of claims 46 to 54, wherein the target data is the information about an obtaining method of the Object Credit Certificate.

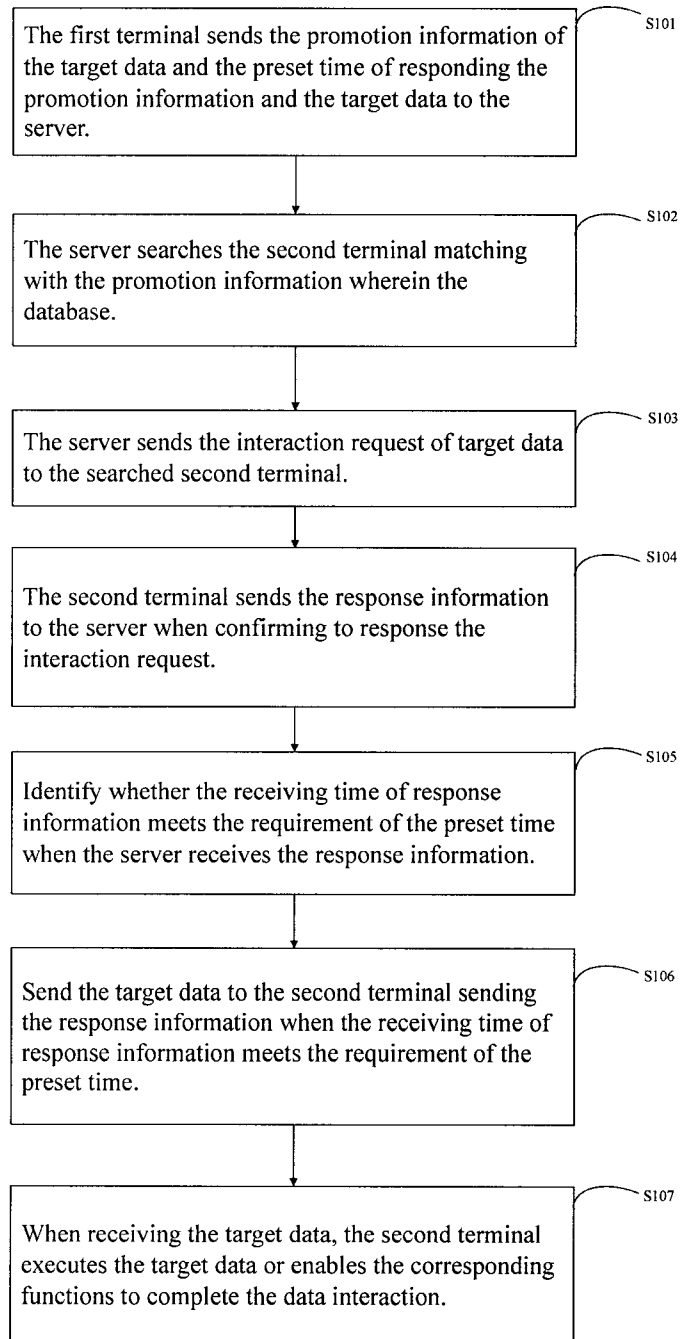


Figure 1

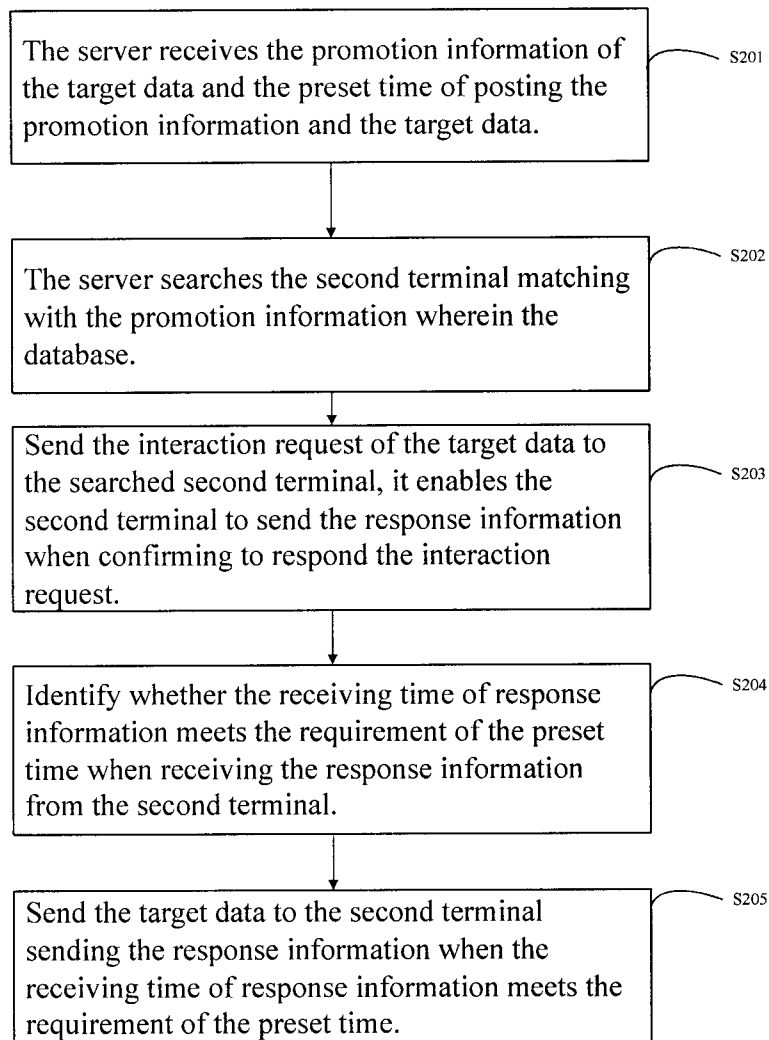


Figure 2

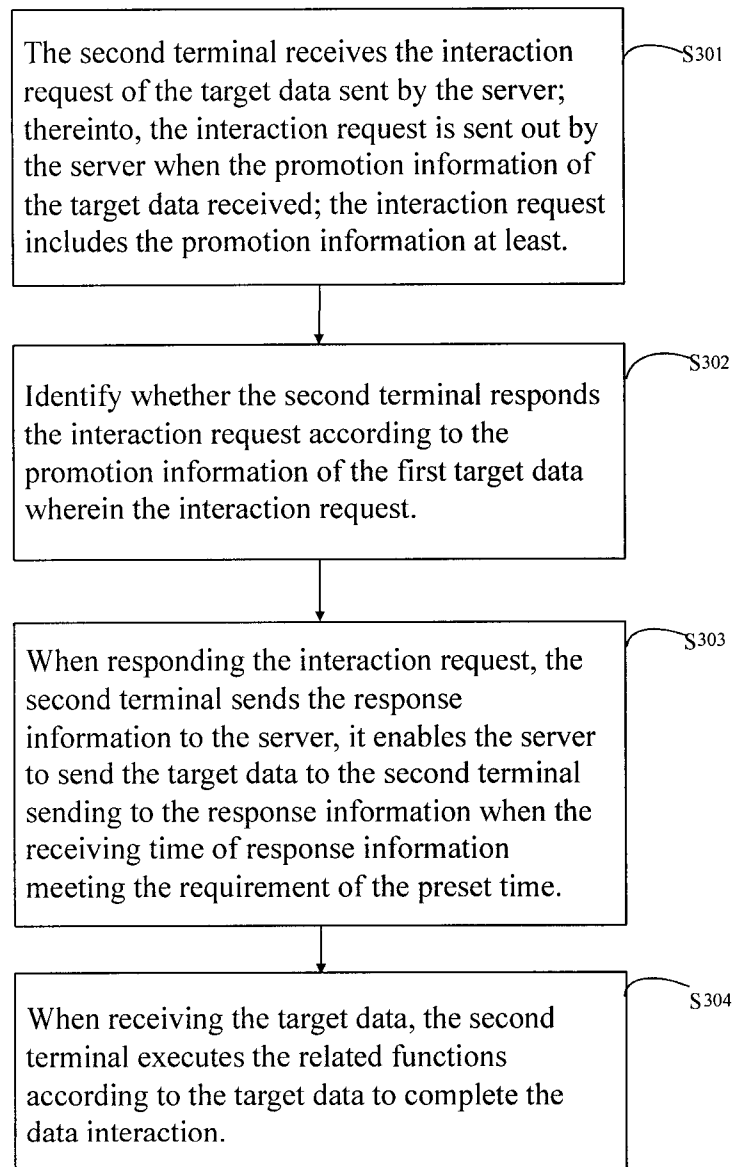


Figure 3

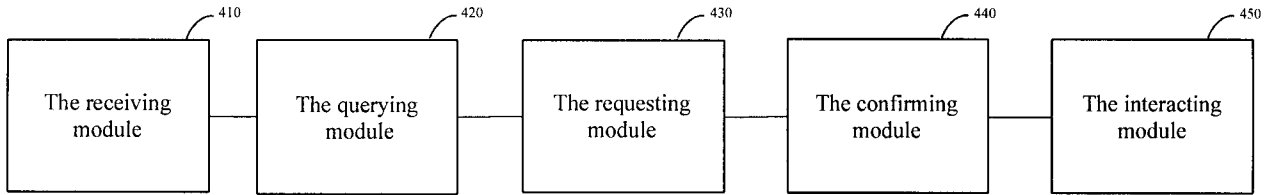


Figure 4

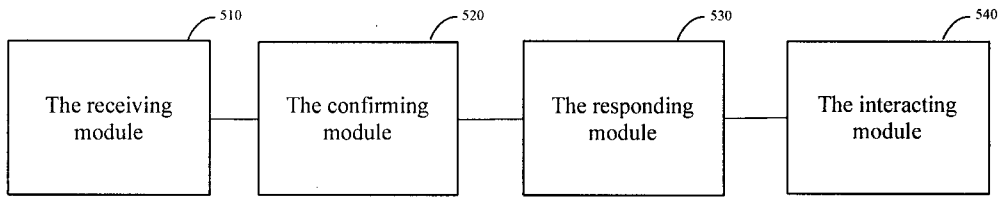


Figure 5

The server receives the promotion information of the target data and the preset time of posting the promotion information and the target data.

S201

The server searches the second terminal matching with the promotion information wherein the database.

S202

Send the interaction request of the target data to the searched second terminal, it enables the second terminal to send the response information when confirming to respond the interaction request.

S203

Identify whether the receiving time of response information meets the requirement of the preset time when receiving the response information from the second terminal.

S204

Send the target data to the second terminal sending the response information when the receiving time of response information meets the requirement of the preset time.

S205