

CLAIMS

What is claimed is:

1. A computerized method executable on a transaction server for processing a two-dimensional code transaction comprising:

generating a two-dimensional code embedding a first part of a handle message, said two-dimensional code to be scanned by an imaging device of a user, said first part of the handle message consisting of data of: a merchant ID, an acceptor ID, a location information, a transaction amount, a transaction ID, and a processing flag;

transmit the two-dimensional code as an image to a reader server so that the reader server can decode the code;

receiving from a reader server a transaction message, said transaction message comprising data of a payment information, the data of the payment information added by the reader server, as a second part of the handle message to the first part of the handle message;

decoding the transaction message to extract at least the data of the merchant ID, the location information, the transaction amount, and the transaction ID;

transmitting the extracted data to an acquirer for verification;

in response to receiving the verification from the acquirer, transmitting at least the payment information and the handle message to an issuer, wherein the issuer is identified in the payment information; and

in response to receiving authentication from the issuer, completing the two-dimensional code transaction.

2. A computerized method executable on a transaction server for processing a two-dimensional code transaction comprising:

generating a two-dimensional code embedding a first part of a handle message, said two-dimensional code to be scanned by an imaging device of a user, said first part of the handle message comprising of data of: a merchant ID, an acceptor ID, a location information, a transaction amount, a transaction ID, and a processing flag;

transmit the two-dimensional code as an image to a reader server so that the reader server can decode the code;

receiving from a reader server a transaction message, said transaction message comprising data of a payment information, the data of the payment information added

by the reader server, as a second part of the handle message and the first part of the handle message;

- decoding the transaction message to extract at least the data of the merchant ID, the location information, the transaction amount, and the transaction ID;

- transmitting the extracted data to an acquirer for verification;

- in response to receiving the verification from the acquirer, transmitting at least the payment information and the handle message to an issuer, wherein the issuer is identified in the payment information; and

- in response to receiving authentication from the issuer, completing the two-dimensional code transaction.

3. A computerized method executable on a server for processing a two-dimensional code transaction comprising:

- receiving a request for generating a two-dimensional code from a user device to conduct a transaction;

- generating the two-dimensional code for scanning on the user device, said two-dimensional code comprising a transaction message as a first part of a handle message, said transaction message consisting of payment information of a primary account number associated with a user;

- receiving a request for payment from a merchant, said request including a merchant information as a second part of the handle message and the transaction message as the first part of the handle message, said second part of the handle message consisting of data of: a merchant ID, an acceptor ID, a location information, a transaction amount, a transaction ID, and a processing flag;

- decoding the second part of the handle message to extract at least the data of the merchant ID, the location information, the transaction amount, and the transaction ID;

- adding data of the payment information as a second part of the handle message;

- transmitting the extracted data to an acquirer for verification;

- in response to receiving the verification from the acquirer, transmitting at least the payment information and the handle message to an issuer, wherein the issuer is identified in the payment information; and

- in response to receiving authentication from the issuer, completing the two-dimensional code transaction.

4. A computerized method executable on a server for processing a two-dimensional code transaction comprising:

receiving a request for generating a two-dimensional code from a user device to conduct a transaction;

generating the two-dimensional code for scanning on a wallet application installed on the user device, said two-dimensional code comprising a transaction message as a first part of a handle message, said transaction message consisting of a wallet user ID associated with a user;

receiving a request for payment from a merchant, said request including a merchant information as a second part of the handle message and the transaction message as the first part of the handle message, said second part of the handle message consisting of data of: a merchant ID, an acceptor ID, a location information, a transaction amount, a transaction ID, and a processing flag;

decoding the second part of the handle message to extract at least the data of the merchant ID, the location information, the transaction amount, and the transaction ID;

adding data of the payment information as a second part of the handle message;

transmitting the extracted data to an acquirer for verification;

in response to receiving the verification from the acquirer, transmitting at least the payment information and the handle message to an issuer, wherein the issuer is identified in the payment information; and

in response to receiving authentication from the issuer, completing the two-dimensional code transaction.

5. The computerized method of any of the preceding claims, wherein the two-dimensional code comprises a QR code or a barcode.

6. A system for incorporating the steps of any of the preceding claims.