applications extremely fast, as to ensure quick processing of fiat currency transactions. Accordingly, the use of traditional payment networks and payment systems technologies in combination with blockchain currencies may provide consumers and merchants the benefits of the decentralized blockchain while still maintaining security of account information and provide a strong defense against fraud and theft.

SUMMARY

The present disclosure provides a description of systems and methods for managing fractional reserves of blockchain currency.

A method for managing fractional reserves of blockchain currency includes: storing, in a first central account, at least a fiat amount associated with a fiat currency; storing, in a second central account, at least a blockchain amount associated with a blockchain currency; storing, in an account database, a plurality of account profiles, wherein each account profile includes data associated with a consumer including at least a fiat currency amount, a blockchain currency amount, an account identifier, and an address; receiving, by a receiving device, a transaction message associated with a payment transaction, wherein the transaction message is formatted based on one or more standards and includes a plurality of data elements, including at least a data element reserved for private use if the transaction is determined to be a blockchain transaction based on the transaction message, the data element including including a specific address and a transaction amount; identifying, by a processing device, a specific account profile stored in the account database where the included address corresponds to the specific address included in the data element in the received transaction message; and if the transaction is determined to be a blockchain transaction based on the transaction message, updating, by the processing device, the blockchain currency amount included in the identified specific account profile based on the transaction amount included in the data element in the received transaction message.

A system for managing fractional reserves of blockchain currency includes a central database, an account database, a receiving device, and a processing device. The central database is configured to store:

a first central account including at least a fiat amount associated with a fiat currency; and a second central account including at least a blockchain amount associated with a blockchain currency. The account database is

configured to store a plurality of account profiles, wherein each account profile includes data associated with a consumer including at least a fiat currency amount, a blockchain currency amount, an account identifier, and an address. The receiving device is configured to receive a transaction message associated with a payment transaction, wherein the transaction message is formatted based on one or more standards and includes a plurality of data elements, including at least a data element reserved for private use if the transaction is determined to be a blockchain transaction based on the transaction message, the data element including a specific address and a transaction amount. The processing device is configured to: identify a specific account profile stored in the account database where the included address corresponds to the specific address included in the data element in the received transaction message; and if the transaction is determined to be a blockchain transaction based on the transaction message,update the blockchain currency amount included in the identified specific account profile based on the transaction amount included in the data element in the received transaction message.

BRIEF DESCRIPTION OF THE DRAWING FIGURES

The scope of the present disclosure is best understood from the following detailed description of exemplary embodiments when read in conjunction with the accompanying drawings. Included in the drawings are the following figures:

FIG. 1 is a block diagram illustrating a high level system architecture for managing blockchain currency storage and linkage thereof to privately verified identifies and use thereof in the processing of blockchain transactions using payment networks in accordance with exemplary embodiments.

FIG. 2 is a block diagram illustrating the processing server of FIG. 1 for authorizing blockchain transactions and linking blockchain transactions to privately verified identifies in accordance with exemplary embodiments.

FIG. 3 is a block diagram illustrating the issuer of FIG. 1 for managing fractional reserves of fiat and blockchain currency in accordance with exemplary embodiments.

WHAT IS CLAIMED IS:

1. A method for managing fractional reserves of blockchain currency, comprising:

storing, in a first central account, at least a fiat amount associated with a fiat currency;

storing, in a second central account, at least a blockchain amount associated with a blockchain currency;

storing, in an account database, a plurality of account profiles, wherein each account profile includes data associated with a consumer including at least a fiat currency amount, a blockchain currency amount, an account identifier, and an address;

receiving, by a receiving device, a transaction message associated with a payment transaction, wherein the transaction message is formatted based on one or more standards and includes a plurality of data elements, including at least a data element reserved for private use if the transaction is determined to be a blockchain transaction based on the transaction message, the data element including a specific address and a transaction amount;

identifying, by a processing device, a specific account profile stored in the account database where the included address corresponds to the specific address included in the data element in the received transaction message; and

if the transaction is determined to be a blockchain transaction based on the transaction message, updating, by the processing device, the blockchain currency amount included in the identified specific account profile based on the transaction amount included in the data element in the received transaction message.

2. The method of claim 1, further comprising:

a first central account including at least a fiat amount associated with a fiat currency, and

a second central account including at least a blockchain amount associated with a blockchain currency;

an account database configured to store a plurality of account profiles, wherein each account profile includes data associated with a consumer including at least a fiat currency amount, a blockchain currency amount, an account identifier, and an address;

a receiving device configured to receive a transaction message associated with a payment transaction, wherein the transaction message is formatted based on one or more standards and includes a plurality of data elements, including at least a data element reserved for private use if the transaction is determined to be a blockchain transaction based on the transaction message, the data element including a specific address and a transaction amount, and

a processing device configured to

identify a specific account profile stored in the account database where the included address corresponds to the specific address included in the data element in the received transaction message, and

if the transaction is determined to be a blockchain transaction based on the transaction message, update the blockchain currency amount included in the identified specific account profile based on the transaction amount included in the data element in the received transaction message.

12. The system of claim 11, wherein the processing device is further configured to update the blockchain amount stored in the second central account based on the transaction amount included in the data element in the received transaction message.