

WHAT IS CLAIMED IS:

1. A method comprising:
receiving, by a processing network computer a plurality of clearing files from a plurality of transport computers;
generating, by the processing network computer, a settlement file comprising a first settlement amount and a first destination associated with a digital vault associated with the processing network computer at a custodian computer, based on data in the plurality of clearing files;
transmitting, by the processing network computer to an authorizing entity computer, the settlement file comprising the first settlement amount and the first destination; and
transmitting, by the processing network computer to the custodian computer, a transfer instruction file comprising the first destination, a second settlement amount and a second destination associated with one of the plurality of transport computers; and
wherein the authorizing entity computer thereafter sends the first settlement amount or an amount equivalent to the first settlement amount to the first destination at the custodian computer and wherein the custodian computer or the processing network computer sends the second settlement amount to the second destination associated with the transport computer.
2. The method of claim 1, wherein the second settlement amount is an amount of digital currency and the second destination is a second digital address.
3. The method of claim 1, wherein the second settlement amount is a fiat currency amount and the second destination is a bank account, and wherein the processing network computer sends the second settlement amount to the second destination associated with the transport computer.
4. The method of claim 1, wherein the processing network computer sends the second settlement amount to the second destination associated with the transport computer, and wherein the method further comprises:

transmitting, by the processing network computer to the custodian computer, a message comprising a first exchange amount, and then the custodian computer provides a second exchange amount to a processing network account of the processing network computer, before the processing network computer sends the second settlement amount to the second destination associated with the transport computer.

5. The method of claim 1, wherein the authorizing entity computer thereafter sends the first settlement amount or an amount equivalent to the first settlement amount to the first destination at the custodian computer and wherein the custodian computer sends the second settlement amount to the second destination associated with the transport computer.

6. The method of claim 1, further comprising:
receiving, by the processing network computer from the custodian computer, confirmation of the transfer of the second settlement amount to the second destination.

7. The method of claim 1, wherein the first and second settlement amounts are in digital currencies.

8. The method of claim 1, wherein the custodian computer transfers the first settlement amount from the authorizing entity computer to the digital vault of the processing network computer at the custodian computer via a blockchain.

9. The method of claim 1, wherein the processing network computer further generates and maintains a processing network account that is used to pay the transport computer in fiat currency.

10. The method of claim 1, wherein the plurality of clearing files contain transaction data associated with transactions conducted between multiple users and resource providers using digital currencies.

11. The method of claim 10, wherein the digital currencies are cryptocurrencies.

12. A server computer comprising:
a processor; and
a non-transitory computer readable medium comprising code executable by the processor for executing:
receiving a plurality of clearing files from a plurality of transport computers;
generating a settlement file comprising a first settlement amount and a first destination associated with a digital vault associated with the server computer at a custodian computer, based on data in the plurality of clearing files;
transmitting to an authorizing entity computer, the settlement file comprising the first settlement amount and the first destination; and
transmitting to the custodian computer, a transfer instruction file comprising the first destination, a second settlement amount and a second destination associated with one of the plurality of transport computers; and
wherein the authorizing entity computer thereafter sends the first settlement amount or an amount equivalent to the first settlement amount to the first destination at the custodian computer and wherein the custodian computer or the server computer sends the second settlement amount to the second destination associated with the transport computer.

13. The server computer of claim 12, wherein the server computer is a processing network computer.

14. The server computer of claim 12, wherein the authorizing entity computer thereafter sends the first settlement amount or an amount equivalent to the first settlement amount to the first destination at the custodian computer and wherein the custodian computer sends the second settlement amount to the second destination associated with the transport computer.

15. A method comprising:

receiving, by a custodian computer from a processing network computer, a transfer instruction file comprising a second settlement amount, a first destination associated with a digital vault at a custodian computer, and a second destination associated with a transport computer, wherein the processing network computer also transmits to an authorizing entity computer, a settlement file comprising a first settlement amount and the first destination;

receiving, at the digital vault associated with the first destination at the custodian computer from an authorizing entity computer, the first settlement amount, or an amount equivalent to the first settlement amount, the first settlement amount or the amount equivalent to the first settlement amount being equal to the second settlement amount; and

transmitting, by the custodian computer, a notification to the processing network computer that the first settlement amount or the amount equivalent to the first settlement amount was received by the custodian computer.

16. The method of claim 15, the first settlement amount and the second settlement amount are digital currencies.

17. The method of claim 15, wherein the transport computer is operated by an acquirer and the authorizing entity computer is operated by an issuer.

18. The method of claim 15, wherein the custodian computer receives the first settlement amount by transferring the first settlement amount from the authorizing entity computer to the digital vault of the processing network computer at the custodian computer via a blockchain.

19. The method of claim 15, wherein the processing network computer is configured to process credit and debit card transactions.

20. The method of claim 15, wherein the second settlement amount is an amount of digital currency and the second destination is a second digital address.