

CLAIMS

1. A computer-implemented method for settling a transaction when selectively using fiat currency or crypto currency, the method comprising:

receiving a transaction request between a user computer system and a merchant computer system, wherein the transaction request indicates a first currency for the user computer system and a second currency for the merchant computer system, the first currency and the second currency being one of a fiat currency or a crypto currency;

in response to the first currency being the fiat currency and the second currency being the crypto currency:

sending an authorization request to a payment device issuer system;

transferring a settlement amount of the fiat currency from the user computer system to an intermediate cryptocurrency wallet module; and

transferring the settlement amount in crypto currency from the intermediate cryptocurrency wallet module to the merchant computer system;

in response to the first currency being the crypto currency and the second currency being the fiat currency:

sending a validation request to a validation network for the crypto currency;

comparing a set of user crypto currency rules to a set of merchant crypto currency rules;

in response to the set of user crypto currency rules matching the set of merchant crypto currency rules, transferring the settlement amount of the crypto currency from the user computer system to an intermediate cryptocurrency wallet module; and

transferring the settlement amount in fiat currency from the intermediate cryptocurrency wallet module to the merchant computer system.

2. The method of claim 1, wherein the intermediate cryptocurrency wallet module is remote from both the user computer system and the merchant computer system.

3. The method of claim 1, wherein the set of user crypto currency rules corresponds to a first region and the set of merchant crypto currency rules corresponds to a second region.
4. The method of claim 3, wherein the transaction indicates the first region and the second region.
5. The method of claim 1, wherein, in further response to the first currency being the crypto currency and the second currency being the fiat currency, determining a crypto currency amount for the transaction.
6. The method of claim 1, wherein the set of user crypto currency rules and the set of merchant crypto currency rules include one or more of a set of Know Your Client (KYC) rules, a set of Anti-Money Laundering (AML) rules, and a set of Combating the Financing of Terrorism (CFT) rules.
7. The method of claim 1, wherein, in response to both the first currency and the second currency being the crypto currency:
 - sending the validation request to the validation network for the crypto currency;
 - comparing the set of user crypto currency rules to the set of merchant crypto currency rules; and
 - in response to the set of user crypto currency rules matching the set of merchant crypto currency rules, transferring the settlement amount of the crypto currency from the user computer system to the merchant computer system.
8. The method of claim 7, wherein, in response to both the first currency and the second currency being the crypto currency or in response to the first currency being the crypto currency and the second currency being the fiat currency, receiving an approved validation response that confirms transfer of the settlement amount to the merchant computer system.

9. The method of claim 1, further comprising releasing a product indicated by the transaction between the user computer system and the merchant computer system to the user computer system.
10. The method of claim 1, further comprising referencing an online market price for the crypto currency to determine the settlement amount.
11. A system for settling a transaction when selectively using fiat currency or crypto currency, the system comprising:
a processor; and
a memory storing instructions that, when executed by the processor:
receive a transaction request between a user computer system and a merchant computer system, wherein the transaction request indicates a first currency for the user computer system and a second currency for the merchant computer system, the first currency and the second currency being one of a fiat currency or a crypto currency; and
in response to the first currency being the fiat currency and the second currency being the crypto currency:
send an authorization request to a payment device issuer system;
transfer a settlement amount of the fiat currency from the user computer system to an intermediate cryptocurrency wallet module; and
transfer the settlement amount in crypto currency from the intermediate cryptocurrency wallet module to the merchant computer system;
in response to the first currency being the crypto currency and the second currency being the fiat currency:
send a validation request to a validation network for the crypto currency;
compare a set of user crypto currency rules to a set of merchant crypto currency rules;

in response to the set of user crypto currency rules matching the set of merchant crypto currency rules, transfer the settlement amount of the crypto currency from the user computer system to an intermediate cryptocurrency wallet module; and

transfer the settlement amount in fiat currency from the intermediate cryptocurrency wallet module to the merchant computer system.

12. The system of claim 11, wherein the intermediate cryptocurrency wallet module is remote from both the user computer system and the merchant computer system.

13. The system of claim 11, wherein the set of user crypto currency rules corresponds to a first region and the set of merchant crypto currency rules corresponds to a second region.

14. The system of claim 13, wherein the transaction indicates the first region and the second region.

15. The system of claim 11, wherein, in further response to the first currency being the crypto currency and the second currency being the fiat currency, the processor executes further instructions stored in the memory to determine a crypto currency amount for the transaction.

16. The system of claim 11, wherein the set of user crypto currency rules and the set of merchant crypto currency rules include one or more of a set of Know Your Client (KYC) rules, a set of Anti-Money Laundering (AML) rules, and a set of Combating the Financing of Terrorism (CFT) rules.

17. The system of claim 11, wherein, in response to both the first currency and the second currency being the crypto currency, the processor executes further instructions stored in the memory to:

send the validation request to the validation network for the crypto currency;
compare the set of user crypto currency rules to the set of merchant crypto
currency rules; and

in response to the set of user crypto currency rules matching the set of merchant
crypto currency rules, transfer the settlement amount of the crypto currency from the
user computer system to the merchant computer system.

18. The system of claim 17, wherein, in response to both the first currency and the
second currency being the crypto currency or in response to the first currency being the
crypto currency and the second currency being the fiat currency, the processor executes
further instructions stored in the memory to receive an approved validation response that
confirms transfer of the settlement amount to the merchant computer system.

19. The system of claim 11, wherein the processor executes further instructions
stored in the memory to release a product indicated by the transaction between the user
computer system and the merchant computer system to the user computer system.

20. The system of claim 11, wherein the processor executes further instructions
stored in the memory to reference an online market price for the crypto currency to
determine the settlement amount.

CLAIMS

1. A computer-implemented method for settling a transaction when selectively using fiat currency or crypto currency, the method comprising:

receiving a transaction request for a transaction between a user computer system located in a first region and a merchant computer system located in a second region, wherein the transaction request indicates a first currency for the user computer system and a second currency for the merchant computer system, the first currency and the second currency being one of a fiat currency or a crypto currency;

in response to the first currency being the fiat currency and the second currency being the crypto currency, automatically:

sending an authorization request to the payment device issuer system;

converting a settlement amount of the fiat currency to a settlement amount of the cryptocurrency;

transferring the settlement amount of the fiat currency from the user computer system to an intermediate cryptocurrency wallet; and

transferring the settlement amount in crypto currency from the intermediate cryptocurrency wallet module to the merchant computer system;

in response to the first currency being the crypto currency and the second currency being the fiat currency, automatically:

transcribing the transaction into a secure record;

sending a validation request to a plurality of peer-to-peer computing devices of a validation network for the crypto currency, the validation request including at least a portion of the secure record and node information for a plurality of peer-to-peer computing devices of the validation network to validate the transaction at one or more of the plurality of peer-to-peer computing devices of the validation network;

setting, via a graphical user interface of the intermediate cryptocurrency wallet module, a first ruleset corresponding to the first region, and a second ruleset corresponding to the second region;

in response to the one or more of the plurality of peer-to-peer computing devices of the validation network validating the transaction, and the first ruleset matching the second ruleset:

transferring the settlement amount of the crypto currency from the user computer system to the intermediate cryptocurrency wallet module;

converting the settlement amount of the crypto currency to a settlement amount of the fiat currency; and

transferring the settlement amount in fiat currency from the intermediate cryptocurrency wallet module to the merchant computer system;

wherein a value of the settlement amount of the fiat currency and a value of the settlement amount of the cryptocurrency are substantially equal.

2. The method of claim 1, wherein the intermediate cryptocurrency wallet module is remote from both the user computer system and the merchant computer system.

3. The method of claim 2, wherein the transaction indicates the first region and the second region.

4. The method of claim 1, wherein, in further response to the first currency being the crypto currency and the second currency being the fiat currency, determining a crypto currency amount for the transaction.

5. The method of claim 1, wherein the first ruleset and the second ruleset include, for a respective first and second region, one or more of a set of Know Your Client (KYC) rules, a set of Anti-Money Laundering (AML) rules, and a set of Combating the Financing of Terrorism (CFT) rules.

6. The method of claim 1, wherein, in response to both the first currency and the second currency being the crypto currency:

sending the validation request to the validation network for the crypto currency;

comparing the first ruleset to the second ruleset; and

in response to the first ruleset matching the second ruleset, transferring the settlement amount of the crypto currency from the user computer system to the merchant computer system.

7. The method of claim 6, wherein, in response to both the first currency and the second currency being the crypto currency or in response to the first currency being the crypto currency and the second currency being the fiat currency, receiving an approved validation response that confirms transfer of the settlement amount to the merchant computer system.

8. The method of claim 1, further comprising releasing a product indicated by the transaction between the user computer system and the merchant computer system to the user computer system.

9. The method of claim 1, further comprising referencing an online market price for the crypto currency to determine the settlement amount.

10. A system for settling a transaction when selectively using fiat currency or crypto currency, the system comprising:

a processor of a payment device issuer system; and

a memory storing instructions that, when executed by the processor:

receive, by instructions that are executed by the processor of the payment device issuer system, a transaction request for a transaction between a user computer system and a merchant computer system, wherein the transaction request indicates a first currency for the user computer system located in a first region and a second currency for the merchant computer system located in a second region, the first currency and the second currency being one of a fiat currency or a crypto currency; and

in response to the first currency being the fiat currency and the second currency being the crypto currency, automatically, by the instructions:

send an authorization request to the payment device issuer system;

convert a settlement amount of the fiat currency to a settlement amount of the cryptocurrency;

transfer the settlement amount of the fiat currency from the user computer system to an intermediate cryptocurrency wallet module coupled to the processor; and

transfer the settlement amount in crypto currency from the intermediate cryptocurrency wallet module to the merchant computer system;

in response to the first currency being the crypto currency and the second currency being the fiat currency, automatically, by the instructions:

transcribe the transaction into a secure record;

send a validation request to a plurality of peer-to-peer computing devices of a validation network for the crypto currency, the validation request including at least a portion of the secure record and node information for a plurality of peer-to-peer computing devices of the validation network to validate the transaction at one or more of the plurality of peer-to-peer computing devices of the validation network; and

set, via a graphical user interface of the intermediate cryptocurrency wallet module, a first ruleset corresponding to the first region, and a second ruleset corresponding to the second region;

in response to the one or more of the plurality of peer-to-peer computing devices of the validation network validating the transaction, and the first ruleset matching the second ruleset, automatically, by the instructions:

transfer the settlement amount of the crypto currency from the user computer system to the intermediate cryptocurrency wallet module;

convert the settlement amount of the crypto currency to a settlement amount of the fiat currency; and

transfer the settlement amount in fiat currency from the intermediate cryptocurrency wallet module to the merchant computer system;

wherein a value of the settlement amount of the fiat currency and a value of the settlement amount of the cryptocurrency are substantially equal.

11. The system of claim 10, wherein the intermediate cryptocurrency wallet module is remote from both the user computer system and the merchant computer system.
12. The system of claim 11, wherein the transaction indicates the first region and the second region.
13. The system of claim 10, wherein, in further response to the first currency being the crypto currency and the second currency being the fiat currency, the processor executes further instructions stored in the memory to determine a crypto currency amount for the transaction.
14. The system of claim 10, wherein the first ruleset and the second ruleset include, for a respective first and second region, one or more of a set of Know Your Client (KYC) rules, a set of Anti-Money Laundering (AML) rules, and a set of Combating the Financing of Terrorism (CFT) rules.
15. The system of claim 10, wherein, in response to both the first currency and the second currency being the crypto currency, the processor executes further instructions stored in the memory to:
 - send the validation request to the validation network for the crypto currency;
 - compare the first ruleset to the second ruleset; and
 - in response to the first ruleset matching the second ruleset, transfer the settlement amount of the crypto currency from the user computer system to the merchant computer system.
16. The system of claim 15, wherein, in response to both the first currency and the second currency being the crypto currency or in response to the first currency being the crypto currency and the second currency being the fiat currency, the processor executes further instructions stored in the memory to receive an approved validation

response that confirms transfer of the settlement amount to the merchant computer system.

17. The system of claim 10, wherein the processor executes further instructions stored in the memory to release a product indicated by the transaction between the user computer system and the merchant computer system to the user computer system.

18. The system of claim 10, wherein the processor executes further instructions stored in the memory to reference an online market price for the crypto currency to determine the settlement amount.