

WHAT IS CLAIMED IS:

1. A computer-implemented method for communicating transaction data between mobile devices, the computer-implemented method comprising:

receiving, with at least one processor from a point-of-sale (POS) device, account data associated with a merchant account and device data associated with the POS device, wherein the device data associated with the POS device comprises short message service (SMS) device data associated with the POS device;

registering, with at least one processor, the account data associated with the merchant account as corresponding to the SMS device data associated with the POS device in an application hosted by a transaction service provider system;

receiving, with at least one processor from a user device, account data associated with a user account and device data associated with the user device, wherein the device data associated with the user device comprises SMS device data associated with the user device;

registering, with at least one processor, the account data associated with the user account as corresponding to the SMS device data associated with the user device in the application hosted by the transaction service provider system;

receiving, with at least one processor via an SMS communication connection, transaction data associated with a transaction from the POS device, comprising:

the SMS device data associated with the POS device,

the SMS device data associated with the user device, and
parameter data associated with the transaction, the transaction initiated by the POS device, the parameter data comprising a transaction value,

verifying, with at least one processor, that the POS device and the user device are registered in the application hosted by the transaction service provider system in response to receiving the SMS device data associated with the POS device and the SMS device data associated with the user device;

transmitting, with at least one processor, a transaction parameter confirmation message to the POS device based on receiving the transaction data;

receiving, with at least one processor from the POS device, a transaction parameter confirmation response message;

transmitting, with at least one processor, a pre-authorization request message to an issuer server in response to receiving the transaction parameter confirmation response message from the POS device;

receiving, with at least one processor from the issuer server, a pre-authorization response message comprising an indication based on an account balance of the user account being greater than the transaction value;

based on receiving the pre-authorization response message comprising the indication transmitting, with at least one processor, a first confirmation message associated with the transaction, via an SMS communication connection, to the user device to confirm the transaction;

receiving, with at least one processor from the user device, a first confirmation response message via the SMS communication connection; and

based on receiving the first confirmation response message, processing, with at least one processor, the transaction data.

2. The computer-implemented method according to claim 1, further comprising:

based on determining that a transaction authorization limit is greater than an authorization limit threshold, transmitting, with at least one processor, a second confirmation message associated with the transaction to the user device; and

based on receiving a second confirmation response message associated with the transaction, confirming, with at least one processor and prior to processing the transaction data, that a second confirmation response is valid.

3. The computer-implemented method according to claim 1, wherein registering account data associated with the account as corresponding to the SMS device data associated with the user device further comprises:

registering, with at least one processor, confirmation data associated with confirmation of the transaction, the confirmation data corresponding to the SMS device data associated with the user device.

4. The computer-implemented method according to claim 2, further comprising:

determining, with at least one processor, that the second confirmation response message indicates that the transaction is valid based on a comparison of the second confirmation response message to confirmation data received during registration of the account data associated with the user account corresponding to the SMS device data associated with the user device.

5. The computer-implemented method according to claim 1, wherein verifying the POS device and the user device are registered further comprises:

determining, with at least one processor, that the SMS device data associated with the POS device corresponds to the account data associated with the merchant account; and

determining, with at least one processor, that the SMS device data associated with the user device corresponds to the account data associated with the user account.

6. The computer-implemented method according to claim 1, wherein verifying the POS device and the user device are registered further comprises:

based on determining that at least one of the POS device and the user device are not registered, transmitting, with at least one processor, a message associated with the transaction to the at least one of the POS device and the user device indicating that the at least one of the POS device and the user device are not registered.

7. A system for communicating transaction data between mobile devices, the system comprising:

at least one processor programmed or configured to:

receive, from a point-of-sale (POS) device, account data associated with a merchant account and device data associated with the POS device, wherein the device data associated with the POS device comprises short message service (SMS) device data associated with the POS device;

register the account data associated with the merchant account as corresponding to the SMS device data associated with the POS device in an application hosted by a transaction service provider system;

receive, from a user device, account data associated with a user account and device data associated with the user device, wherein the device data associated with the user device comprises SMS device data associated with the user device;

register the account data associated with the user account as corresponding to the SMS device data associated with the user device in the application hosted by the transaction service provider system;

receive, via an SMS communication connection, transaction data associated with a transaction from the POS device, comprising:

the SMS device data associated with the POS device,

the SMS device data associated with the user device, and

parameter data associated with the transaction, the transaction initiated by the POS device, the parameter data comprising a transaction value,

verify that the POS device and the user device are registered in the application hosted by the transaction service provider system in response to receiving the SMS device data associated with the POS device and the SMS device data associated with the user device;

transmit a transaction parameter confirmation message to the POS device based on receiving the transaction data;

receive, from the POS device, a transaction parameter confirmation response message;

transmit a pre-authorization request message to an issuer server in response to receiving the transaction parameter confirmation response message from the POS device;

receive, from the issuer server, a pre-authorization response message comprising an indication based on an account balance of the user account being greater than the transaction value;

based on receiving the pre-authorization response message comprising the indication, transmit a first confirmation message associated with the transaction, via an SMS communication connection, to the user device to confirm the transaction;

receive, from the user device, a first confirmation response message via the SMS communication connection; and

based on receiving the first confirmation response message, process the transaction data.

8. The system according to claim 7, wherein the at least one processor is further programmed or configured to:

based on determining that a transaction authorization limit is greater than an authorization limit threshold, transmit a second confirmation message associated with the transaction to the user device; and

based on receiving a second confirmation response message associated with the transaction, confirm, prior to processing the transaction data, that a second confirmation response is valid.

9. The system according to claim 7, wherein, when registering account data associated with the user account as corresponding to the SMS device data associated with the user device, the at least one processor is programmed or configured to:

register confirmation data associated with confirmation of the transaction, the confirmation data corresponding to the SMS device data associated with the user device.

10. The system according to claim 8, wherein the at least one processor is further programmed or configured to:

determine that the second confirmation response message indicates that the transaction is valid based on a comparison of the second confirmation response message to confirmation data received during registration of the account data associated with the user account corresponding to the SMS device data associated with the user device.

11. The system according to claim 7, wherein, when verifying that the POS device and the user device are registered, the at least one processor is programmed or configured to:

determine that the SMS device data associated with the POS device corresponds to the account data associated with the merchant account;
and

determine that the SMS device data associated with the user device corresponds to the account data associated with the user account.

12. The system according to claim 7, wherein, when verifying that the POS device and the user device are registered, the at least one processor is programmed or configured to:

based on determining that at least one of the POS device and the user device are not registered, transmit a message associated with the transaction to the at least one of the POS device and the user device indicating that the at least one of the POS device and the user device are not registered.

13. A computer-program product for communicating transaction data between mobile devices, the computer program product comprising at least one non-transitory computer-readable medium comprising one or more instructions that, when executed by at least one processor, cause the at least one processor to:

receive, from a point-of-sale (POS) device, account data associated with a merchant account and device data associated with the POS device, wherein the device data associated with the POS device comprises short message service (SMS) device data associated with the POS device;

register the account data associated with the merchant account as corresponding to the SMS device data associated with the POS device in an application hosted by a transaction service provider system;

receive, from a user device, account data associated with a user account and device data associated with the user device, wherein the device data associated with the user device comprises SMS device data associated with the user device;

register the account data associated with the user account as corresponding to the SMS device data associated with the user device in the application hosted by the transaction service provider system;

receive, via an SMS communication connection, transaction data associated with a transaction from the POS device, comprising:

the SMS device data associated with the POS device,

the SMS device data associated with the user device, and

parameter data associated with the transaction, the transaction initiated by the POS device, the parameter data comprising a transaction value,

verify that the POS device and the user device are registered in the application hosted by the transaction service provider system in response to receiving the SMS device data associated with the POS device and the SMS device data associated with the user device;

transmit a transaction parameter confirmation message to the POS device based on receiving the transaction data;

receive, from the POS device, a transaction parameter confirmation response message;

transmit a pre-authorization request message to an issuer server in response to receiving the transaction parameter confirmation response message from the POS device;

receive, from the issuer server, a pre-authorization response message comprising an indication based on an account balance of the user account being greater than the transaction value;

based on receiving the pre-authorization response message comprising the indication, transmit a first confirmation message associated with the transaction, via an SMS communication connection, to the user device to confirm the transaction;

receive, from the user device, a first confirmation response message via the SMS communication connection; and

based on receiving a the first confirmation response message, process the transaction data.

14. The computer program product according to claim 13, wherein the one or more instructions further cause the at least one processor to:

based on determining that a transaction authorization limit is greater than an authorization limit threshold, transmit a second confirmation message associated with the transaction to the user device; and

based on receiving the second confirmation response message associated with the transaction, confirm, prior to processing the transaction data, that a second confirmation response is valid.

15. The computer program product according to claim 13, wherein the one or more instructions that cause the at least one processor to register account data associated with an account as corresponding to the SMS device data associated with the user device cause the at least one processor to:

register confirmation data associated with confirmation of the transaction, the confirmation data corresponding to the SMS device data associated with the user device.

16. The computer program product according to claim 14, wherein the one or more instructions further cause the at least one processor to:

determine that the second confirmation response message indicates that the transaction is valid based on a comparison of the second confirmation response message to confirmation data received during registration of the account data associated with the account corresponding to the SMS device data associated with the user device.