CLAIMS

1. A method for barcode-based communication between a payer device and a payee device during a payment service procedure, the method comprising:

rendering, at the payer device, payer information into a payment barcode, wherein the payer information comprises payer account information, wherein the payer information is generated at the payer device;

displaying, at the payer device, the payment barcode for scanning by the payee device;

scanning, by the payee device, the payment barcode and obtaining the payer information included in the payment barcode by parsing image data of the payment barcode;

extracting, by the payee device, the payer account information from the payer information,

requesting, by the payee device, a payment from the payment server by using the payer account information included in the payment barcode, wherein the payment result included in a payment response is sent by the payment server to the payee device, wherein the payment result is generated by the payment server after the payment server makes a payment from a payer account to a payee account based on the payer account information, payee account information, and a payment amount, wherein the payment request sent from the payee device to the payment server includes the payer account information, the payee account information, and the payment amount,

rendering, by the payee device, the payment result into the payment barcode and displaying the payment barcode for scanning by the payer device to obtain payment result without connecting to the payment server;

scanning, by the payer device, the payment barcode displayed by the payee device to obtain the payment result included in the payment barcode, wherein the payment result is sent by the payment server to the payee device after the payment server makes the payment from the payer account to the payee account based on the payment request comprising the payer account information; and

obtaining, by the payer device, the payment result included in the payment barcode without connecting to the payment server.

2. The method according to claim 1, wherein the payer device is configured to add at least

one of device control information or communication control information to the payer information.

3. The method according to claim 1, wherein after obtaining the payer information included in the payment barcode, the payee device renders waiting process control information into a waiting process control barcode, and displays the waiting process control barcode on the screen of the payee device for scanning by the payer device, wherein the waiting process control information includes device control information, wherein after scanning the waiting process control barcode, the payer device is configured to perform at least one of the following: changing a working status parameter of the payer device, or performing a specified function operation, for example, adjusting screen brightness, turning off a camera for a predetermined time and then turning on the camera, or a combination thereof, to save power of the payer device.

4. The method according to claim 3, further comprising:

in response to determining that the payee device displays the waiting process control barcode after obtaining the payer information, proceeding to scan the payment barcode of the payee device by the payer device;

after scanning the payment barcode, the payee device successively displays two barcode to the payer device to respectively transmit control information and the payment result, scanning by the payer device the two barcodes successively displayed by the payee device, or adding communication control information to the waiting process control information by the payee device, where the communication control information includes a notification message instructing the payer device to continue to scan the next barcode, and after scanning the waiting process control barcode, the payer device extracts the communication control information and leans that the payee further displays the next barcode for scanning by the payer device.

5. The method according to claim 1 further comprising:

sending, by the payer device, a prompt signal after communication with the payee device ends.

6. The method according to claim 1, wherein the scanning the payment barcode displayed by the payee device comprises:

starting to scan the payment barcode after the payment barcode is displayed for a predetermined display time.

7. The method according to claim 1, wherein the scanning the payment barcode displayed by the payee device, to obtain the payment result comprised in the payment barcode comprises:

in response to determining that the payer device cannot communicate with the payment server, scanning the payment result barcode displayed by the payee device, to obtain the payment result comprised in the payment barcode.

8. The method according to claim 7, wherein in response to determining that the payer device cannot communicate with the payment server, the payer information further comprises communication control information instructing to return the payment result, wherein the communication control information is used to instruct the payee device to generate and display the payment result barcode.

9. The method according to claim 3, wherein the device control information comprises at least one of the following: turning down screen brightness, or turning off a camera for a predetermined time and then turning on the camera.

10. An apparatus for barcode-based communication, the apparatus comprising a plurality of modules configured to perform the computer-implemented method of any one of claims 1 to 9.