Legal Issues Arising from the Use of Mobile Devices in Electronic Commerce

Chang-ho CHUNG 정창호, 鄭彰鎬 Judge, Republic of Korea, since 1993 Head of UNCITRAL and UNIDROIT Research Team of Supreme Court of Korea SNU, LSE, HKU

Legal Issues Arising from the Use of Mobile Devices in Electronic Commerce

I. Introduction

- II. Development of Mobile Finance
- III. Legal Issues Arising from Mobile Finance
- IV. Conclusion

I. Introduction

- Development of mobile devices and electronic commerce
- Constantly increasing rate of mobile subscription worldwide
- Legal framework for mobile finance

- 1. SMS-based Application
- Short Message Service
- Information about the status of bank account
- Push message and pull message

- 2. WAP Browser-based Application
- Wireless Application Protocol
- Conversational data exchange
- Both information-based service and transaction-based service

3. IC Chip-based Application

- Miniaturized electronic circuit
- Collaborate bank or credit card company
- Changing IC Chips from different issuers

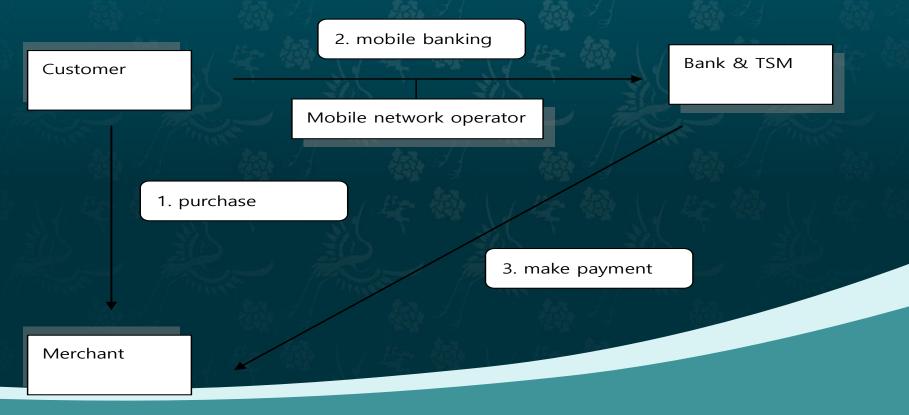
4. USIM-based Application

- Universal Subscriber Identity Module
- Stores information about subscriber and authentication and provides storage space
- Download over the air various mobile finance applications

5. NFC-based Application

- Exchange of data between devices over about 10cm distance
- Standardization by GSMA and Mobey Forum
- Trusted Service Manager

1. Mobile Banking



2. Mobile Payment

Merchant

(1) Mobile Credit Card

3. pay the bill

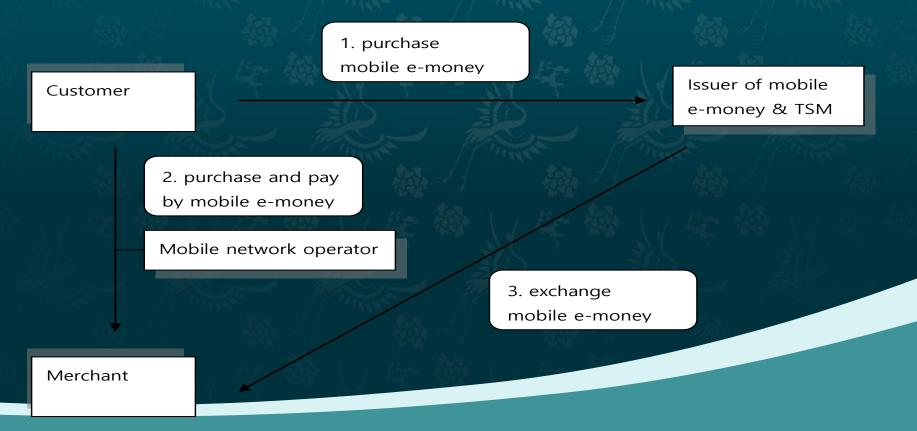
Credit card company & TSM

1. purchase by mobile credit card

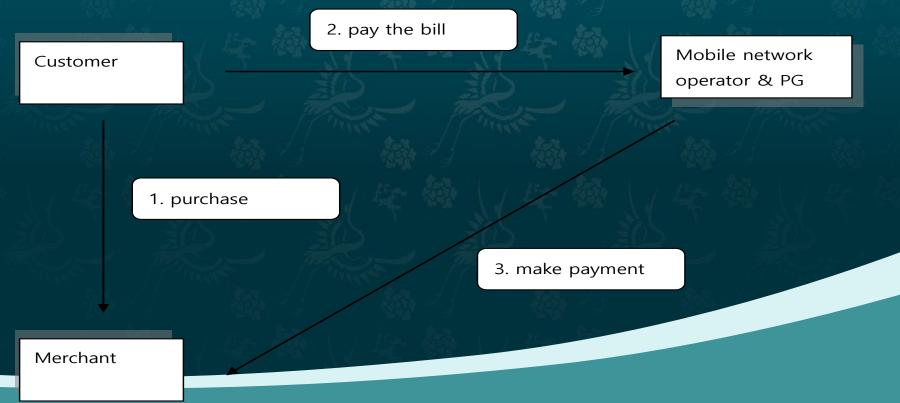
Mobile network operator

2. make payment

(2) Mobile Electronic Money



(3) Direct Mobile Billing Service



III. Legal Issues Arising from Mobile Finance A. Participants

- Customers, merchants, mobile network operators, financial institutions, issuers of mobile electronic money, payment gateways and TSMs
- Electronic Financial Transaction Act of South Korea: Financial Institutions, Electronic Financial Business Operator, Subsidiary Electronic Financial Business Operator

III. Legal Issues Arising from Mobile Finance B. Electronic Communication Used for Mobile Finance

- Definition, legal recognition, form, error, time and pace of dispatch and receipt
- UNCITRAL Convention on the Use of Electronic Communications in International Contracts, UNCITRAL Model Law on Electronic Commerce, Framework Act on Electronic Commerce of South Korea
- EFTA: confirmation of transaction, correction of errors

III. Legal Issues Arising from Mobile Finance C. Electronic Credit Transfer

- Definition, time to execute credit transfer, revocation and completion of credit transfer
- UNCITRAL Model Law on International Credit Transfers
- EFTA: making payment, time when payment takes effect, withdrawal of transaction request

- 1. Liability Issues
- Forgery
- Alteration
- Accident arising in the course of electronically transmitting or processing the conclusion of a transaction

- 2. Liability of Financial Institution
- Non-facing and automated manner
- Bearing all the risk of Unauthorized financial transaction
- Except intention or gross negligence of customer

- 3. Liability of Mobile Network Operator
- Transaction errors during transmitting or processing
- Duty to indemnify to financial institutions

4. Liability of TSM

- Subsidiary mobile financial business operator
- Duty to indemnify to financial institution for loss caused by intention or negligence of TSM, duty to ensure safe processing and keep confidentiality

- 5. In Case of Mobile Electronic Money and Direct Mobile Billing Service
- Categorize as mobile financial business operator
- Same liability of financial institution
- EFTA: liability of financial institutions and electronic financial business operators and status of subsidiary electronic financial business operator

6. Loss or Theft

- Receipt of customer's notification
- Notification to TSM
- EFTA: notification to financial institution, electronic financial business operator and subsidiary electronic financial business operator

III. Legal Issues Arising from Mobile Finance E. Exchange of Mobile Electronic Money

- Customer's duty to fulfill the payment is completed
- Issuers of mobile electronic money become bound to exchange mobile electronic money
- EFTA: fulfillment of payment by mobile electronic money and exchange of mobile electronic money

III. Legal Issues Arising from Mobile Finance F. Duty to Secure Safety and Keep Confidentiality

- Ensuring security and reliability of mobile finance
- EFTA: duty to secure safety and keep confidentiality

III. Legal Issues Arising from Mobile Finance G. Qualification and Supervision

- Traditional regulation on financial institutions could not be applied to mobile financial business operator or subsidiary mobile financial business operator
- EFTA: qualification and supervision

IV. Conclusion

- Immense potential for various financial transactions
- Strengthening liability of financial institution and mobile financial business operator
- Unified Regulation defining the various solutions of mobile finance
- Setting up regulatory framework on qualification and supervision