Pre-paid Solution

Always inspire the next NFC solution

DUALi
㈜듀얼아이

Contents

Overview of System

Overview of system

Advantages

Reducing Human error

Increase Accuracy

Easier way to buy
Museum, Theme Park & Taxi..etc

Boost Spending

Touch & Pay

Simplest way of payment
Enhancement of Public image

Improvement of Operating efficiency

Reducing transaction time
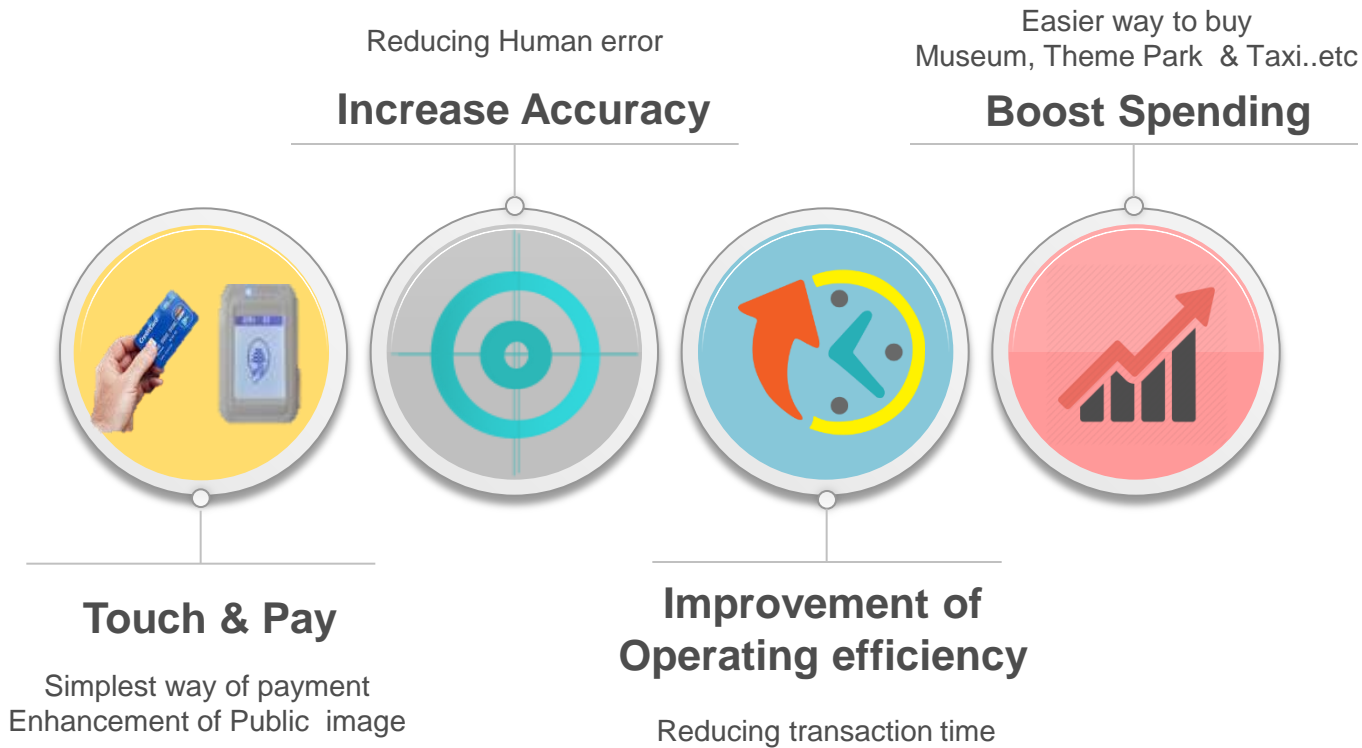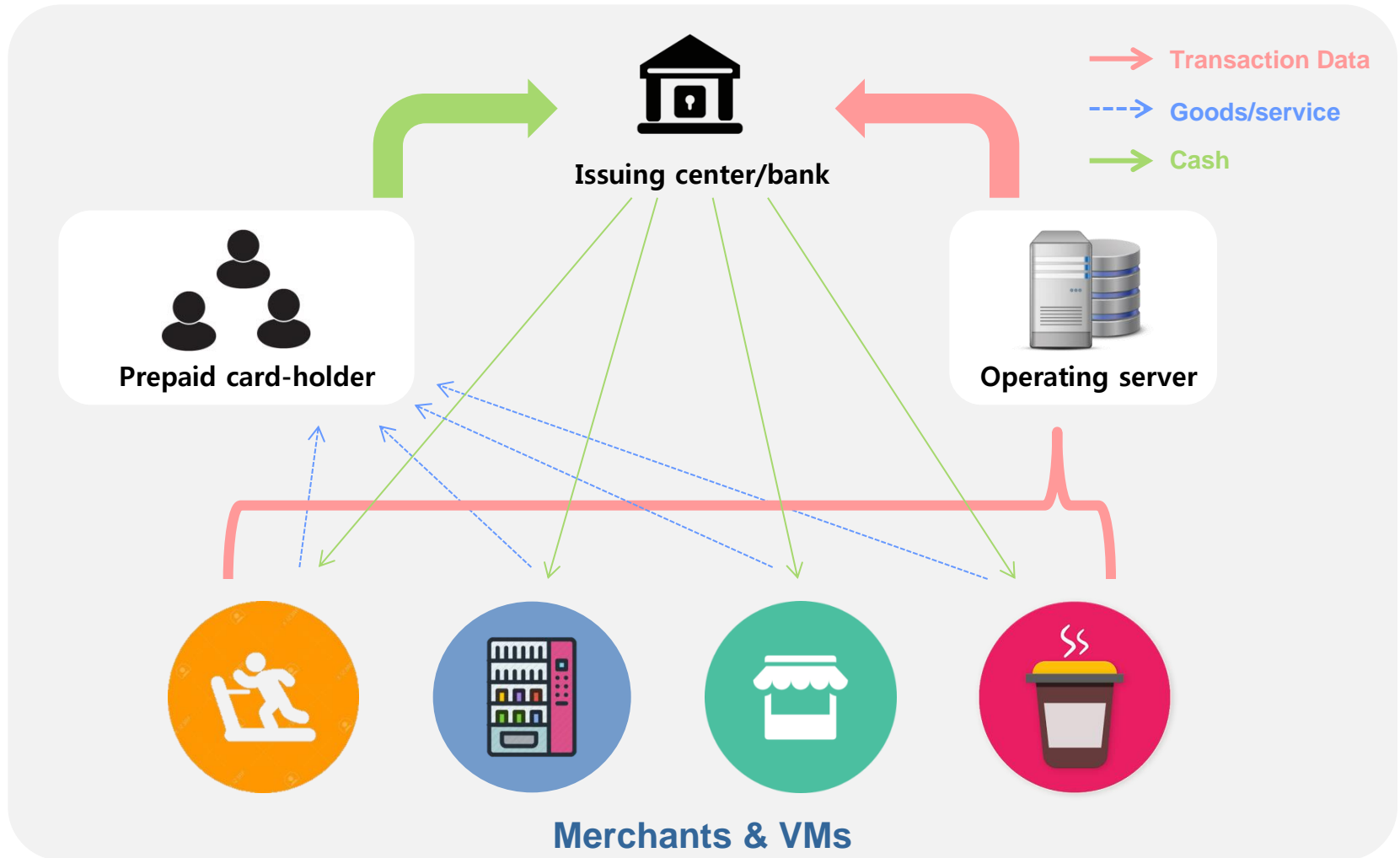
The expanding transportation card to retail scheme, improves the operating efficiency compare to cash/credit card system as it requires the heavy-duty in the administration department caused by individual payment and the individual collecting of the payment . Since this is closed loop payment, it also saves expenditure of deploying infrastructure. Beside it also boost spending of non-resident (traveller & temporary employee)
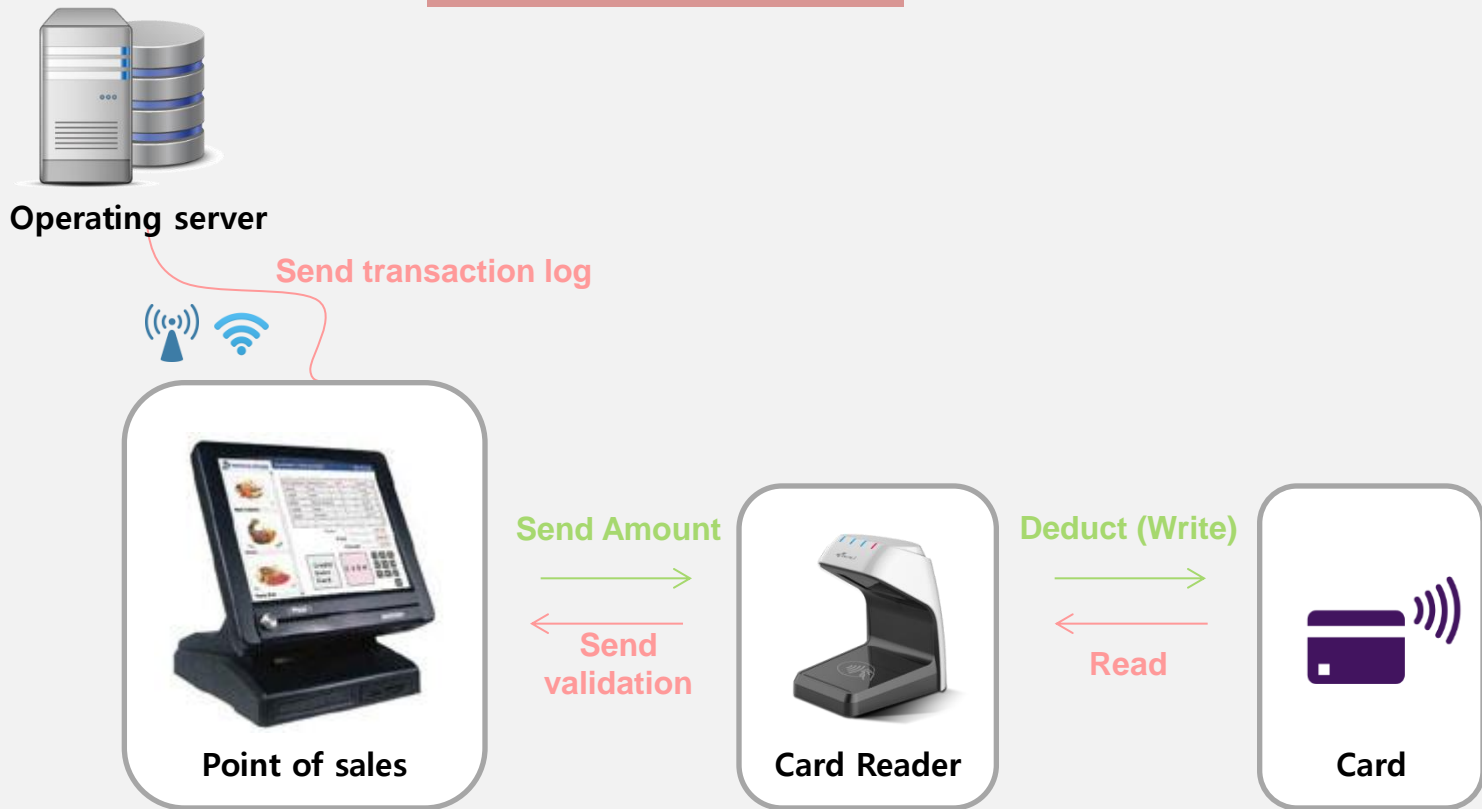
Total system configuration

Transaction Data

Goods/service

Cash

Issuing center/bank

Prepaid card-holder

Operating server

Merchants & VMs

Overview of system

Merchant scheme

Prepaid card

Operating server

Send transaction log

Send Amount

Send validation

Deduct (Write)

Read

Point of sales

Card Reader

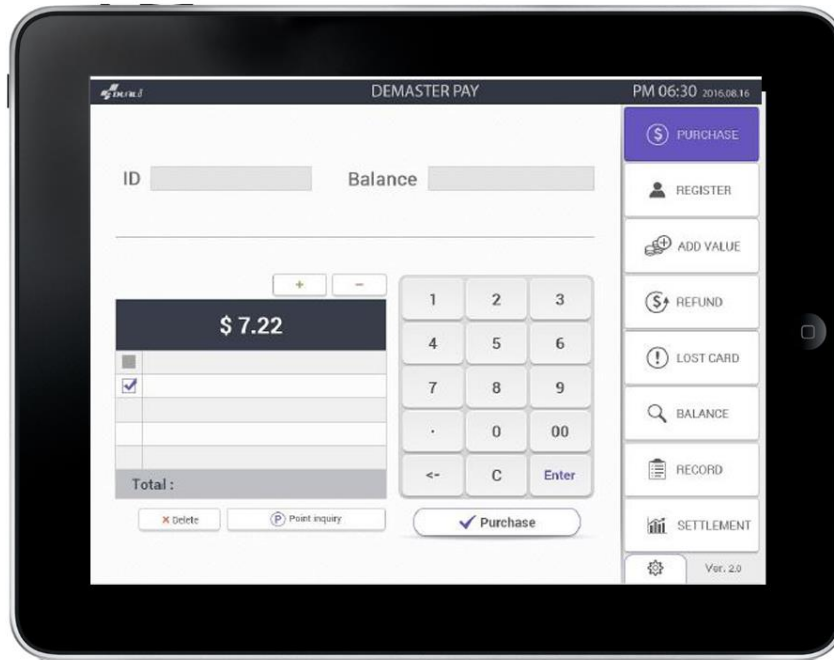**Card**

Beyond payment

Mobile wallet

Customer analysis data

Target marketing

Overview of system

Features of Prepaid POS system

- ✓ Able to integrate with existing POS system

- ✓ **Purchase**

  Nol card or NFC or Bardode

- ✓ **Easy Reload**

- ✓ **Transaction record**

- ✓ **Event report (Lost card)**

* Optional Feature(CRM)

- ✓ **Customer analysis**

- ✓ **Membership management**

- ✓ **Promotion/event**

> **Advantages (USER)**

Enjoy the endless benefits

With this customer centered application, Tap More

Prepaid card

Coupon

Membership

Stamp

In-app purchase

Nearby Restaurant

EXTENDED OPTION

Overview of system

Features of Mobile APP

- ✓ **Mobile type prepaid card**

    Offline purchase : NFC or Barcode

    Online purchase : Barcode or Digit-code

- ✓ **Easy Reload**

- ✓ **Earn & Redeem points**

- ✓ Integrated management of

    Membership card

    Coupon

- ✓ **Merchant promotion/event**

- ✓ **Transaction record**

EXTENDED OPTION

> **Why DUALi**

As you're looking for…

Payment Expert   **Quality product**   **Reliable Partner**

We're capable of…

- Provide **system consulting**: System design, Affiliate merchant relation, market strategy
- Provide **HW/SW and System integration**
- **Staff training** for maintain server system/ merchant management
- **Extended service**
    - Customer relationship management (CRM) software
    - Customized/Target marketing (Membership,Coupon..etc)
    - Mobile wallet service (NFC, Barcode/QR technology)

ABOUT DUALi

About DUALi

Company profile

DUALI is total smartcard solution company, since its established in 2000. DUALi provides quality NFC hardware (full packed SDK& FDK) also provides security solution, consulting services

Solution : e-Payment solution

NFC embedded Solution

Secure-ID /e-Passport Solution

Hardware : Contact /Contactless reader

ID (Access control) terminal

Payment terminal

Passport terminal

RFID OEM modules

About DUALi

Milestones

2000~ 2005

2000 DUALi Inc. established

2004 Certification of Quality Management System (ISO 9001:2000)

2005 Contactless Reader Partner of Infineon Technologies

2005 Contactless Reader for metro system / China (Beijing, Guangzhou)

2006~2011

2006 First mobile payment PJT reader (OCR) deployment / Korea, 100Kpcs

2008 Contactless Reader Partner of SONY Felica

2010 Supply 10K + e-Passport reader for Police system / France

2011 > World first VHBR reader w/ Infineon Technology

> Became NFC Module Provider for Datacard/ USA.

> NFC module for transportation Terminal / UK

2012~2018

2012 > World 2nd NFC Certified reader
: DRAGON released

> Selected as Smart card reader provider for NID project(e-KTP) Indonesia – 20kpcs +

2013 > Supply contactless module for ATM vendors /Banking system (Wincor, Diebold, IBM..ETC)

> Supply DESFIRE reader for Metro system / parking (Belbim, Turkey)

2014 Develop EMV/PCI terminal (ODM) for Washington D.C Metro system /USA

2015 ~18 > Supply 250K+ EMV /KTC certified Reader in Korea

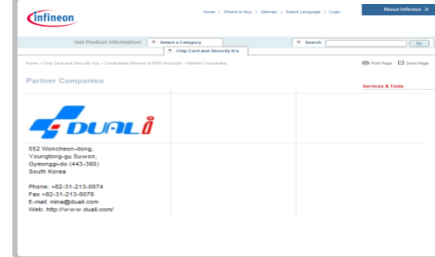> Supply 5.5K Contactless reader for Parking system in Indonesia (Bank Mandiri, Bank BNI)

About DUALi

Global technology partner
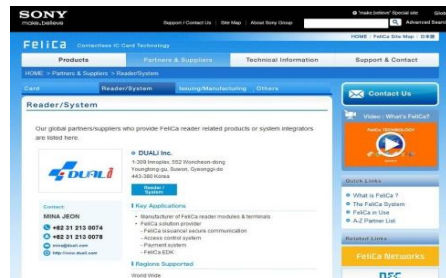
DUALi Client

DUALi competitiveness

Fin-tech consulting reference

Samsung Pay

- Consult HCE protocol security
- MWC Launch: ref. device

Metro system India /China

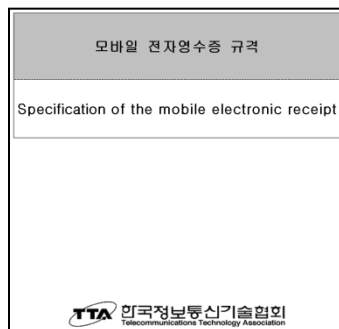- Support MASTERCARD brand certification

Apple Pay

- Washington Metro
- VISA,MASTER certified

FIDO standardization

- Develop

: Card authentication applet

: Smartphone ASM

Mobile e-Receipt (Korea)

- Develop

: Security module

: e-Receipt Standard device

Payment Reader

- Contact/Contactless Level1 certification
- Contact Level2 certification

DUALi Solutions

Payment & Public transportation Solution

Reference

- EMV payment reader deployment – 150kpcs + (2015-2016.06)
- Express way (Korea) - Touch & Go terminal development and supply (2005~ 2015)
- Metro system
  - Auto gate module & Handheld ticket analyzer (Samsung SDS)
    / Guangzhou, Muhan(2005), Beijing (2006) China, Delhi metro (2008) India
  - Auto gate module & Handheld ticket analyzer (PT. Softorb Indonesia)
    / MRT, Jakarta Commuter Train, Airport Train Medan, E-Toll (2010~)
  - Top up & Balance check reader
    / Montevideo STM (2011~) Uruguay
    / Bilhete Unico (2012~) Sao Paulo, Rio de Janeiro and Belo Horizonte, Brasil
    / Slovakia

Reference

- Develop Multi payment reader (ODM ,Samsung SDS)
  - Certified Contact & CL EMV, Visa/Master/AMEX Express/Discover zip, PCI PED (2010)
- Metro system
  - Supply validator (Samsung SDS)
    - / Bangalore and Jaipur metro (2012~2013) India
    - / Transit tap pilot (2013) Las Vegas, U.S.A
    - / Metro Auto gate, Washington (2013 pilot) U.S.A – 4kpcs confirmed

    https://www.youtube.com/watch?v=CDXK_xuMrp8
    https://www.youtube.com/watch?v=BMAm7zCTij0

Thank you

DUALi Global partner

Asia	North/ South America	Europe	MENA

Asia: STI, ACENTECH, R&D, ALLCARD

North/ South America: Scard Solutions Inc, neoDATA

Europe: QUIO GmbH, NFCmix, BISS identical.company, Albion Electrónica, Kimaldi, PROSOFT, CPS, NSI neurosco Llc

MENA: ARIAN NEGAR AFZAR