

NFC Virtual Ticketing

How we deployed rapid, scalable, mobile ticketing solutions with no infrastructure upgrade





Suzhou Citizer Card

- Suzhou is a city in the east of China, about 100 km (62 mi) northwest of Shanghai city, with over 10M population.
- Suzhou Citizen Card is a multi-application card for local residents to pay for and access public services such as transit or leisure amenities.
- In addition, payment transactions are supported in supermarkets, gas stations or taxis.





The Dilemma Facing

Suzhou

Open loop based Payment Network Operators

02 QR Code based Internet Leaders



Card

03

Transit card users demanding convenience of virtual cards

?

Threat

PTAs have a limited role if (bank) open loop or (Internet Leaders) QR-code solution dominates the market

Opportunity

Mobilizing the service without losing control of core business, big potential to optimize and extend the service to customer



eSE NFC solution was Chosen

Selection Criteria	Open Loop	QR Code	HCE NFC	eSE NFC
No upgrade to existing Infra/Backend System	No	No	No	Yes
No upgrade to existing Business/Service processes	No	No	No	Yes
No compromise for Security/Performance/Robustness	Yes	No	No	Yes
No compromise for Device Coverage	Yes	Yes	No	Mid
Keep control of Core Business and Customer	No	No	Yes	Yes
Cost effective & Time to Launch	No	No	No	Yes



ese NFC solution

OEM Dependency

Technical Complexity

Full Lifecycle Management

- 10s of mobile and wearable OEMs (device makers)
- Authority from OEM is needed to access the eSE in device

- Filling the technical gap between NFC/eSE chipset & JavaCard OS--> device --> app --> platform
- OEM introduces new models every year with potentially different NFC/eSE chipset HW or JavaCard OS

- Service level (activation, top up, ticketing sales, refund, backup, restore)
- Device Level (change, broken, lost, factory reset)



One Stop Solution from Snowball



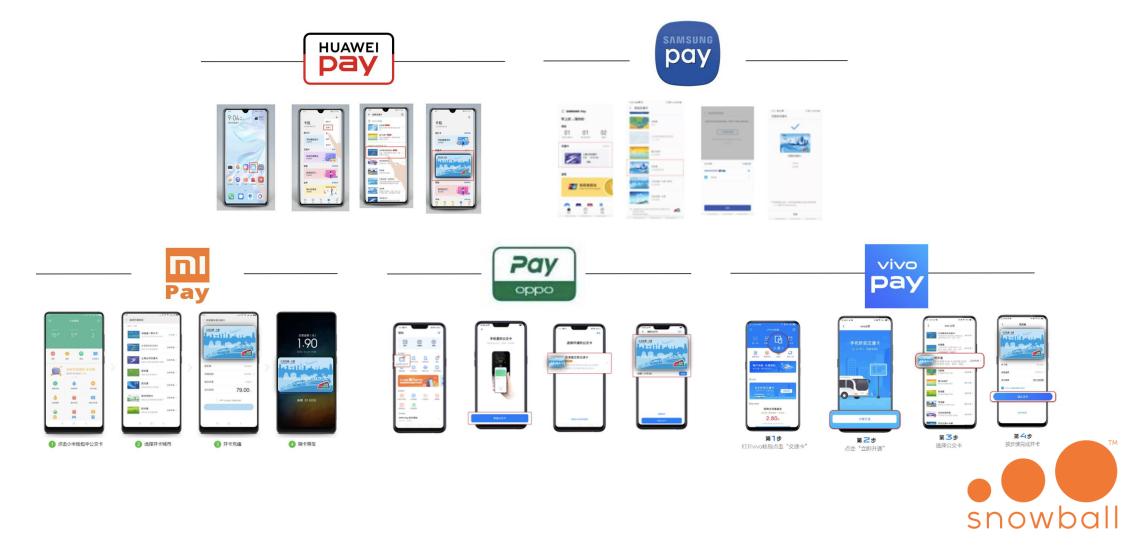




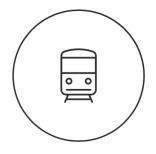
- Java Card Applet to emulate any card scheme or specification
- Virtual mobile ticketing SaaS platform
- New OEM onboarding service
- New device onboarding service
- 2nd line customer care support



Service Launched within 3 Months



NFC Virtual Ticketing Enabledtbynsit@nboard



0024

public transport authorities



0101

cities benefit from our platform



0226

smartphones and wearable devices are fully compatible



0608

million urban population have access





For more intormation

on:



Please come and see us on stand: E32

Immediately on your right as you walk out of the Theatre

www.snowballtech.com

bob.jiang@snowballtech.com

