

中小企雲端應用安全策略

首頁 免費課程 下載 活動花絮 指南 鳴謝 關於計劃



雲端服務、各種網上或電子商貿服務不僅是可以加強業務運作效率 可以幫助企業家探索和取得新商機、新市場和新客戶,以及加強 實現許多策略性業務目標,包括節約成本。中小企從業員更需了 端服務在保安上的詳情。

認識網上及流動支付

日期: 2015年8月13日(星期四)

時間: 下午2時至5時

地點: 香港灣仔活道27號 職業訓練局大樓11樓

http://cloud4smb.hk



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計劃顧問及課程導師

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Any topic, discussion, suggestion, advice, comment or else covered in this presentation vary from time to time as technologies always change. We keep no liability that following up the mentioned practice in this presentation and contents may make you in the most secure position when using cloud based application or internet services.

認識網上及流動支付

- 1. 嘉賓講者
 - 聯網通商務網路(Linking Business Network)
 - PayPal Hong Kong
- 2. 電子商務的網上及流動支付你要知
- 3. 用戶端安全手段

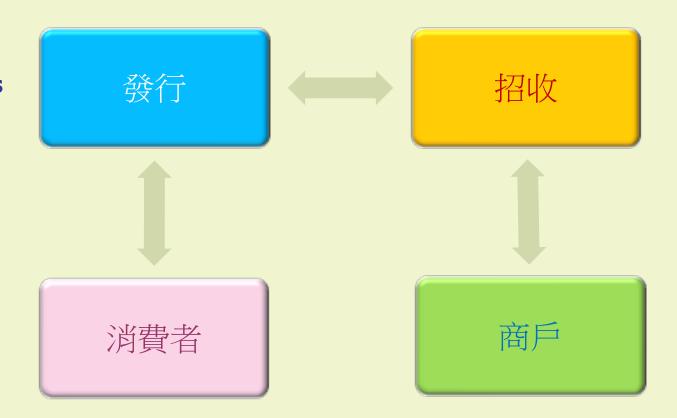
1. 嘉賓講者

聯網通商務網路(Linking Business Network)
PayPal Hong Kong

2. 電子商務的網上及 流動支付你要知務你要知

Payment Services (4-party Model)

Business model: Payment services



Source: The role of Hong Kong Monetary Authority in supporting retail payments, Esmond Lee, Cartes Asia 2014, 20 March 2014

Payment Services (3-party Model)

Business model: Payment services, fund pool and information pool 非銀行支付 交易服務商

消費者



Source: The role of Hong Kong Monetary Authority in supporting retail payments, Esmond Lee, Cartes Asia 2014, 20 March 2014

網上及流動支付你要知務你要知

- · 網上支付 Online payment
- · 流動支付 Mobile payment

安全的網上交易

雙重身份驗證(Two factor authentication) 實物的使用令互聯網交易更安全

- Digital certificate within a smart card (HK Smart ID card)
 or electronic key (USB key)
- SMS-based one-time-password (OTP)
- Security token-based OTP

雙重身份驗證

Education video from The Hong Kong Association of Banks

http://www.hkab.org.hk/DisplayArticleAction.do?sid=5&ss=0

安全的網上交易

- 用戶端設備設置
 - > Personal firewall 個人防火牆
 - ➤ Anti-virus software 防病毒軟件
 - ➤ Anti-spyware software 反間諜軟件
- 網上交易平台極少主動發電郵要求重設密碼
- 從預設或官網連結進入帳戶登錄

八達通 Octopus Online Payment

- Tapping Octopus on NFC-enabled Android mobile device
- · 國內購物網-服務費折合為港幣的應付購貨 金額之1.5% (以透過支付實付款的淘寶網平台 商戶為例)

Source: http://www.octopus.com.hk/get-your-octopus/where-can-i-use-it/list-of-places/online-payment/tc/index.html

E-Commerce Online Payment

- HKTDC Small Order Zone
 - http://small-order.hktdc.com/buy/en/buyer-guide/payment-options.html
- Taobao
- Alipay

網上及流動支付你要知務你要知

- · 網上支付 Online payment
- 流動支付 Mobile payment

本地流動支付-用戶期望

3Cs

- Confidence 信心
- Convenience 便利
- Cost effectiveness 成本效益

Stored value facilities (SVF) 储值設施

- Device based
 - Multi-purpose (Octopus)
 - Single-purpose (Coffee shop stored value card)
- Non-device based

本地流動支付現況及發展

現況

- Multi-purpose stored value card 根據銀行法 例監管
- · 無牌發出SVF 觸犯法例

SVF法例監管發展

 The Clearing and Settlement Systems (Amendment) Bill introduced into Lego on Feb 2015

SVF法例監管發展

- 獲發牌條件
 - > 根據香港法律註冊成立的公司
 - > 主要業務
 - > 最低資本要求(on-going) HK\$2,500萬
- Single-purpose SVF 不需要牌照
- · 為了更好保護 SVF 的"Float":要求與持牌人的資産、其他基金分開

Retail payment systems (RPS) 零售支付系統

- 處理轉讓、清算和結算小額交易:
 - Credit card schemes (e.g. Visa, MasterCard, UnionPay)
 - Debit card schemes
 - Merchant acquirers (e.g. banks, EPS)
 - Payment gateways (e.g. PPS, Electronic Bill Presentment and Payment EBPP)

零售支付系統(RPS) 監管發展

現況

- Code of Practice for Payment Card Scheme Operators endorsed by HKMA
 - American Express, UnionPay, Diners Club, EPS, JCB, Jetco, MasterCard, VISA etc.
- new legislative approach is proposed

NFC mobile payment

- Near-Field Communications (NFC)
- Two NFC-compatible devices transfer of data within 4~10 cm

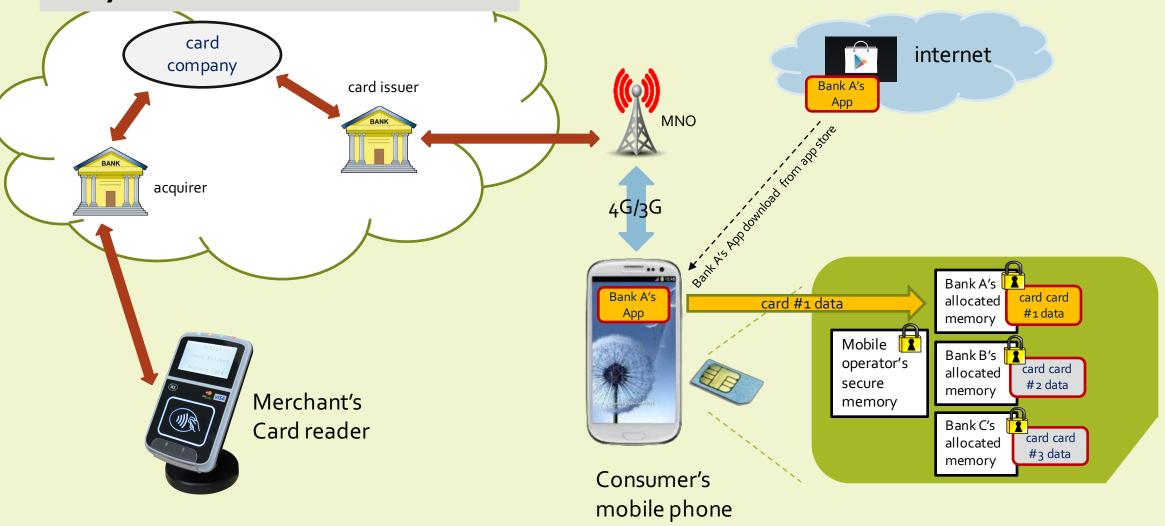
NFC mobile payment infrastructure

Stakeholders:

- Regulator
- Payment service providers
 - non-banks / global players e.g. VISA, MasterCard, UnionPay
 - Banks
- Mobile network operators (MNOs)
- Handset manufacturers
- Secure Element Providers (e.g. SIM card/chip-set provider)
- Trusted service managers (typically working on behalf of payment service provider)

NFC mobile payment infrastructure

Payment Service Providers



NFC mobile payment infrastructure

- Market driven
 - e.g. France Citizi (a jointly service provided by MNOs, banks and a transport operator)
- Government driven setup an open and common infrastructure
 - e.g. Singapore IDA (awarded a contract to a consortium of MNOs, banks, NFC technology provider)

NFC mobile payment

- HSBC, Hang Seng Bank, BOC, Citibank launched NFC mobile payment services in 2013
- Octopus launched Octopus SIM and Octopus Online Payment services using NFC mobile phones
- Visa payWave and MasterCard payPass installed in merchant shops

The ideal NFC mobile payment infrastructure

From consumer point of view:

- Able to download available payment services from different payment service providers onto a single NFC-enabled device (i.e. multiple credit cards within a phone)
- Independent of MNOs
- Independent of handset hardware
- High level of security to protect transaction data and privacy

Possible NFC devices

- SIM card, Micro-SD card, Phone sleeve, Audio jack device
- A SIM card is good to support multiple payment service providers but it is owned and issued from a MNO

Possible NFC valued-added services

- Loyalty, rewards and coupons
- Advertisement
- Transportation and ticketing
- Physical access control

3. 用戶端安全手段

Hands-on

你的設備安全設置

資料來源:

http://www.hkma.gov.hk

http://www.pcpd.org.hk/cindex.html

http://www.infosec.gov.hk/tc_chi/main.html

http://www.infocloud.gov.hk/home/1?lang=tc

http://www.lapssolutions.com

http://www.taobao.com

http://www.alipay.com

http://www.ebay.com

http://www.paypal.com

http://www.google.com

http://www.apple.com/apple-pay

http://www.visa.com.hk

http://www.mastercard.com

https://www.hkab.org.hk/

http://www.consumer.gov.hk

http://www.octopus.com.hk

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