



Get Out Your Phone, Not Your Wallet: Mobile Payments in the U.S.

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Phones as wallets...have we been here before?

Mobile Payments 1.0—1998-2002

The Vision: Payment tokens in mobile phones would be faster and more convenient than mag-stripe wallet cards, with additional services (such as location-based couponing) not presently possible. Trials ensued.

"Cell phone fuel service launches in Lubbock, sparking traffic jams"—Cellenium, 3/12/02

The Reality: Outside of Asia-Pac, available offerings not able to support the vision. Back to the drawing board.

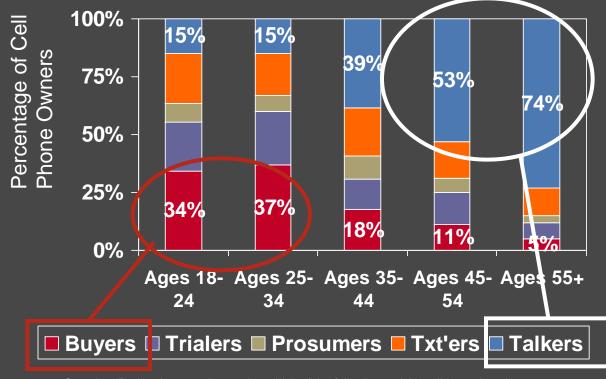
Mobile Payments 2.0—2005-present

The Vision: Same as before...but faster, better & easier to use.

The Reality: This time, it will be different.



Differences, part 1—Mobile data uptake is happening



Question: During the past six months, which of the following activities did you do at least once on a cellphone? (Select all that apply)

- ✓ Payments for digital content are happening
- ✓ Young Adults driving mobile as the "lifestyle device"
- ✓ Improved devices, data networks and content
- ✓ Ubiquity of devices…2.5 billion globally
- ✓ Low-value...but a good boost to ARPU (Average Revenue per User)



Differences, part 2: The evolution of payments

- >Consumers' Payment Habits are Changing
 - √ Cash and checks declining // electronic payments growing
 - √40% of consumers carry less cash than 5 yrs ago
 - √Time-Compression = Convenience, Security and Rewards
 - √Young Adults 18-34 driving many of these changes
 - ✓ Higher overall usage of plastic, higher preference for debit / P2P vs. credit
 - ✓ Seeking an improved experience
- >Issuers targeting new opportunities
 - √ Cash Displacement...Speed and Convenience at POS
 - ✓ Contactless (RF) Payment Cards/ Tokens—ISO 14443 A/B
 - ✓ EY 2006—19 million contactless cards/ tokens in U.S. market
 - ✓ Contactless Acceptance Infrastructure...the gateway to Near-Field (NFC)?





Several options for enabling mpayments

- > Near-Field Communications
 - ✓ Contactless Radio-Frequency technology supporting handset payments, data-transfers from posters or ads and other content
- VIEW
- ✓ Multiple trials, including U.S., but no critical mass of devices/ users
- ✓NFC-equipped devices won't reach U.S. market until 2008
- √"Any-Device" Mobile Payments
 - ✓ Obopay—Handset application download, browser or SMS; companion MasterCard debit card for POS purchases // Personto-Person (P2P) or Business-to-Consumer Transactions
 - ✓ PayPal Mobile, MobileLime, TextPayMe and many others...
 - ✓Banks/ Operators return to mobile banking (Firethorn Mobile/ AT&T)





Asia is pioneering, but some key differences do exist



- ➤ Sophisticated data demand, strong mobile operators and unique cultural factors
- ➤I-Mode---NTT DoCoMo's pioneering mobile data/ digital content payments service
- ➤ DoCoMo has stakes in Sumitomo and UC Credit Card...and is now issuing mobile credit cards
- >20 mil. "Osaifu-Keitai" devices sold so far
- **▶2.6** million users have signed up for payments. But acceptance lags, and downloads complex
- ➤ Technology Differences...Sony's FeliCa platform (not ISO 14443 A/B still standard in Japan



Open questions for U.S. mobile payments include:

- >A complex value chain
 - ✓ Ownership/ support of customer and payment token
 - ✓ Where in device is payment token housed?
 - ✓ When will NFC devices reach critical mass?
 - √ What partnerships / business cases make most sense?
- >How to build out a critical mass of users/ acceptance?
 - √What do consumers want to do?
- ➤ What architecture(s) / payment environments will dominate?
 - ✓ What infrastructure buildout required?
 - ✓ How long will it take to do so?





Our Distinguished Panelists...

- -Dion Lisle-Vice President, Business Development, Obopay
- -Niki Manby-Senior Vice President of Product Innovation, Visa USA
- -Spencer White-Director of Mobile Financial Services and Business Development, Cingular – now part of the new at&t