

Best Practices: Contactless and Mobile Payments Implementation

Welcome – Rori Ferensic

Director of Education and Professional Development, ETA

The Smart Card Payments Application Series January 13, 2009





Introductions

Randy Vanderhoof Executive Director Smart Card Alliance





Webinar Topics

Contactless Payments: Merchant Acceptance

Mohammad Khan, President & Founder, ViVOtech

Contactless Acceptance: What Is the ROI?

Brent Bowen, Vice President, Business Development, Inside Contactless

Implementation: What Are the Best Practices?

Dan Loomis, Global Product Manager, VeriFone

Conclusions and Q&A

Randy Vanderhoof, Executive Director, Smart Card Alliance



Smart Card Alliance

Smart Card Alliance mission

To stimulate the understanding, adoption, use and widespread application of smart card technology through educational programs, market analysis, advocacy, and industry relations

Over 170 members, including participants from financial, retail, government, corporate, and transit industries and technology providers to those users

Major activities

- Industry and Technology Councils
 - Contactless and Mobile Payments Council
 - Healthcare Council
 - Identity Council
 - Physical Access Council
 - Transportation Council
- Conferences, symposia, web seminars and educational workshops
- Web-based resources and email newsletters





Contactless and Mobile Payments Council

Mission: Facilitate the adoption of contactless and mobile payments in the U.S. through education programs for consumers, merchants and issuers

Over 48 active member organizations, including financial industry representatives and technology suppliers

Resources

- Merchant and Issuer Advisory Groups
- Merchant Discussion Forum
- Educational publications on contactless and mobile payments
 - Proximity Mobile Payments Business Scenarios: Research Report on Stakeholder Perspectives
 - Merchant ROI Model & Implementation Guide
 - Proximity Mobile Payments: Leveraging NFC and the Contactless Financial Payments Infrastructure
 - Contactless Payments: Frequently Asked Questions
 - The What, Who and Why of Contactless Payments
- Contactless and mobile payments resources and news
- Payments industry web seminars



Contactless Payments: Merchant Acceptance

Mohammad Khan
President & Founder
ViVOtech

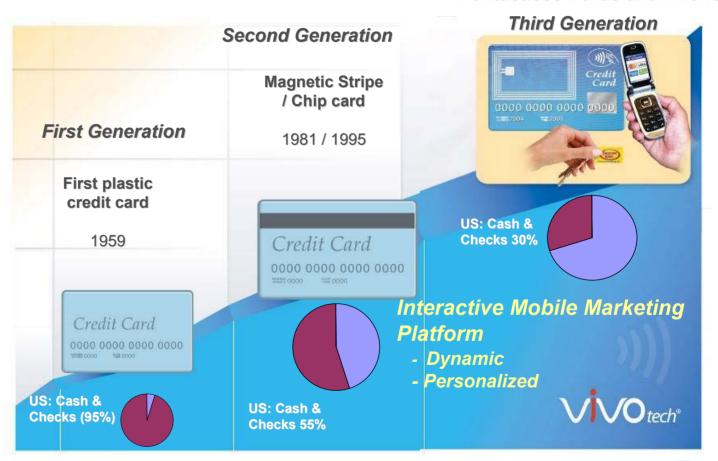






Technology Evolution in Electronic Payments

Contactless Cards and Phones







Over 60 Million Branded Contactless Cards Have Been Issued in United States





















































450,000+ Contactless Readers Are Installed at 130,000 **Merchant Locations in United States**

All Locations in United States Enabled

















Office DEPOT



































































What's Driving the Merchant Contactless Acceptance

Increased Convenience
Faster Transaction
More Spend
Increased Frequency
Chargeback Protection
Enables Mobile



More Customers
Increased Revenue
Better Loyalty
Cost Savings
Enhanced Marketing

Contactless is getting accepted as the next generation payment technology after magnetic stripe!

Contactless has become a worldwide phenomena:

- Being installed in 30+ countries





Contactless Is Paving the Road for Mobile – Enabling New Services for Merchants







Phase 1: Contactless Payments

Enable POS with Contactless
Credit, Debit, Prepaid/Gift/Loyalty &
Private Label Cards

Phase 2: NFC Mobile Payments & Promotions

Enable Mobile
Card Programs, Opt-in Promotions &
Service Discovery, One-on-One Mobile
Marketing

Initial Value Propositions:

- 1. Replaces Cash Faster
- 2. Moves Lines Faster
- 3. Multiple Payment Options
- 4. Increased Customer Loyalty
- 5. Added Security

Additional Value Propositions:

- 1. Higher Usage of Cards
- 2. Low Cost Payment Options
- 3. New Customer Acquisitions
- 4. Highly Efficient Promotion Programs
- 5. Targeted Coupon Issuance & Redemption
- 6. Tailored Product & Services Information





2009 Outlook

Branded contactless card issuance is expected to cross 100 million mark during 2H, 2009 in United States

> i.e., Approx. 25% of active branded cards

Merchant-driven contactless programs should see early deployment in 2009

"Limited" commercial roll outs of NFC mobile phones are expected in 2009, with bigger roll out in 2010-2011

At the same time, macroeconomic conditions can not be ignored in 2009





Contactless Acceptance: What's the ROI?

Brent Bowen
Vice President, Business Development
INSIDE Contactless

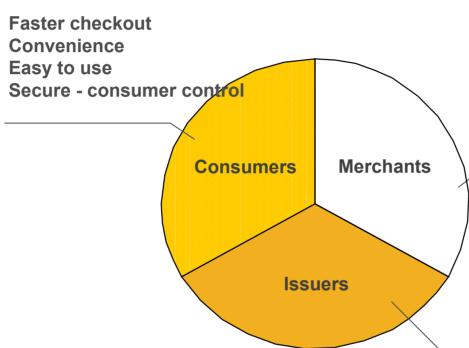






Why Contactless Payment?

Proven benefits for consumers, merchants and issuers



Faster throughput
Increased spend per transaction
Customer satisfaction
Operational efficiency
Differentiation
Customer loyalty

Increase activation (>3%)
Transaction volume (>.5%)
Customer retention & loyalty
Co-branding
Differentiation

According to a major

PayPass issuer's performance data,

PayPass provides:

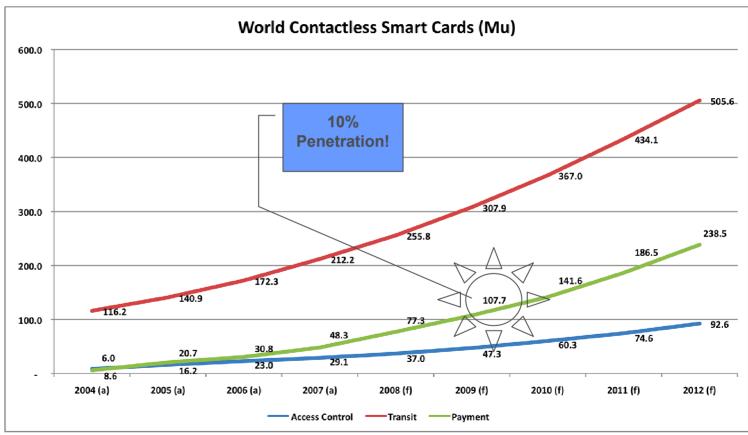
- 36% increase in usage per account
- 45% increase in total transactions per account
- 230% increase in usage at PayPass merchants
- Transactions increased 270% at PayPass merchants





Market Forecast

"World Contactless Smart Card Markets" - Frost & Sullivan, 2008







Summary ...So, Why Contactless?

- Actual cash replacement has resulted
- Contactless is a 'cool' experience for consumers
- Speed & convenience are true benefits
- Driver to top-of-wallet usage
- Increased everyday spend (in non-contactless venues)
- Real demonstrated benefits to all stakeholders
- Acceleration of EMV deployment internationally
- Issuer penetration continuing into 2009





How the ROI Model Works

Merchant provides inputs by asking series of questions

- Revenue/sales information
- Store information
- Transaction information
- Contactless projections
- Transaction processing summary
- Costs to outfit store with contactless hardware
- Summary information on chargebacks, cash handling, etc...

Review ROI summary information

- Shows 3 year review of sales, transactions, card lift, etc...
- Monthly benefits due to contactless acceptance
- One-time cost estimates
- Operational impact to revenue

Refine data to review different scenarios





Typical Scenario

Based on sample models

Even .5% penetration of contactless provides reasonable ROI

Typical ROI for contactless acceptance is 7-18 months

Additional benefits of contactless technology not even considered

Loyalty, rewards, and value-added servicing

Still looking for merchant feedback and industry comments

- Want to continually improve the tool
- Looking for realistic data

http://www.smartcardalliance.org/





Implementation: What Are the Best Practices?

Dan Loomis Global Product Manager VeriFone







Implementation Best Practices

- Physical Considerations
- Development and Certifications
- Payment Processing
- Training and Support
- Marketing





Physical Considerations

Which Contactless Acceptance Device Is Appropriate

- Integrated or Peripheral?
 - Does the customer currently use a PIN or signature capture device
 - Countertop space requirements
 - Mounting and consumer experience

Connectivity Logistics

- Power requirements, wall warts
- Communication to host devices
- High speed data connection available

Location

Ensure visibility at the point of sale







Development and Certifications

Infrastructure Investigation



- Contactless Upgrade or New Implementation
 - Either case requires that the host POS device is fully enabled to interface with the contactless reader

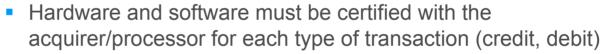
Certified Equipment











Payment applications on the contactless reader must be certified by each card brand

Modifications

- As with all new payment devices, infrastructure changes are to be expected
 - Example: Receipt printing no signature line required with contactless.





Payment Processing

Which Transaction Types Will Be Accepted?

- > Credit
- Debit (PIN, PIN signature)
- Stored Value/Gift Card



Online or Offline Transaction

- "Live" connection required for online authorization
- Assume increased risk with offline processing

Data Elements

Work with the acquirer/processor to understand various card and third party data elements to be supported





Training and Support

Train Staff

- Ensure all staff is thoroughly trained on contactless payment devices
 - Enable customers' ability to benefit
 - » Increase transaction speed, ease
 - Capitalize on infrastructure investment
 - » Increase transaction speed and ticket size
 - » Decrease cash handling
- Identify support personnel and testing practices
 - Deployment procedures, random testing, and reader software updates

Train Customers

- Help identify and teach customers about their payment device feature
 - · Increase transaction speed, ease
- Reliant on staff training





Marketing

Drive Customer Awareness



- Educate customers on the technology
- Display contactless window decals and POS marketing materials
 - Branded test cards
- Consider contactless prepaid and gift card schemes

Build Customer Loyalty, Retention

- Customers enjoy the contactless experience
- Customers tend to shop more often





Conclusions

Randy Vanderhoof Executive Director Smart Card Alliance





Wrap Up and Conclusions

- Contactless/mobile payments the third generation of payments technology
 - 60 million cards, 450K readers, 130K merchants
 - A cash substitute, not replacing other card payment
- Consumer/merchant awareness and uncertain ROI are obstacles to overcome
 - ROI model helps merchants build business case
- Choices of equipment, processing, training, and marketing will impact success for merchant experience
 - ETA, Smart Card Alliance resources available





Q&A

Randy Vanderhoof (moderating)
Executive Director
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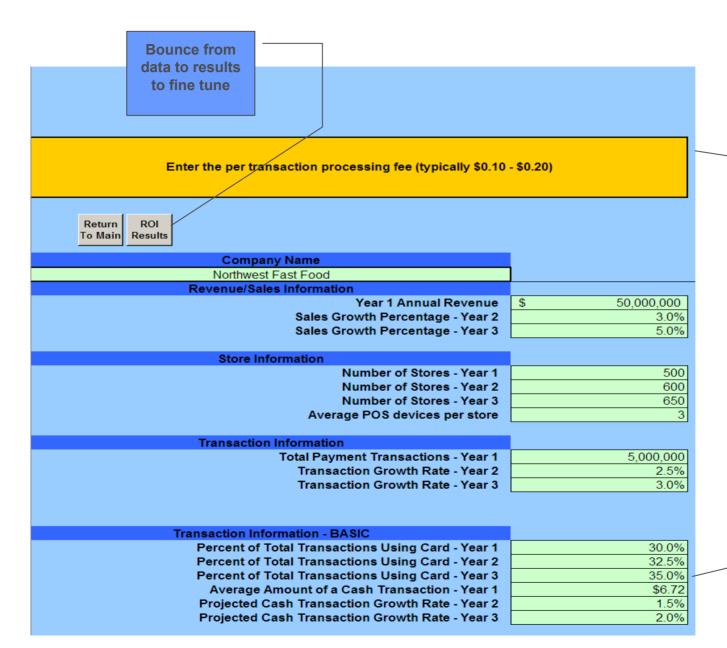


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Data

English
Description of Info Required

Simple percentage-based data

ROI Analysis

Return To Data View Montly Details

Contactless ROI Analysis				Contactless ROI Analysis
Northwest Fast Food				Northwest Fast Food
BASIC				BASIC
Uses straight line average to converted cash transactions (
Based on the data provided your return on investment will be realized in 10 Months				Based on the data provided your return on investment will be realized in 10 Months
ROI Data Summary	First Year	Second Year	Third Year	
Total Sales	1 / /	\$51,500,000	\$54,075,000	Contactless - Return On Investment
Number of Stores Cash Sales	500 \$23.520.000	600 \$23,247,000	650 \$23,711,940	
Card-based Sales	\$26,480,000	\$28,253,000	\$30,363,060	\$1,600,000
				\$1,400,000
Total Transactions Average Transaction	5,000,000 \$ 10.00	5,125,000 \$ 10.05	5,278,750 \$ 10.24	\$1,400,000
Total Number of Cash Transactions	3.467.500	3,423,625	3,489,238	\$1,200,000
Contactless Transactions	50,000	55,000	60,500	grand the second se
Cash Transactions to Contactless	32,500	35,750	39,325	\$1,000,000
Average Card Transaction				Cumulative Revenue
Cash to Contactless Sales Lift	\$362,106	\$369,653	\$421,034	\$800,000 Cumulative Revenue — Cumulative Cost
Monthly Benefits	\$ 37.657	\$ 40,342	\$ 45,422	\$600,000
Card Lift (Cash to Contactless)				grand.
Chargeback Savings	\$ 867	\$ 893	\$ 937	\$400,000
Reduction in Cash Handling		\$ 3,463		A. A
Operational Efficiency	\$ 17,294	\$ 19,116	\$21,436	\$200,000
One-Time Costs	\$ 330,000	\$ -	\$ -	S
Hardware				1 4 7 10 13 16 19 22 25 28 31 34 37
Installation				Months
Marketing & Training				MOTATIO
Software Development	\$ 75,000			
Ongoing Operations	\$ 2,516		\$ 3,014	
Terminal Support				
Conversion cost (Cash to Contactless)	\$ 1,266	\$ 1,354	\$ 1,514	