



Meeting the needs of the connected customer – on the forecourt and for payment

MOBILE PAYMENT IN THE EU:

ROLE OF NFC

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READY FOR MOBILE PAYMENT AT THE PUMP?







Germany: One in three willing to pay for petrol using their smartphones.

Smartphone owners are more open: 43% ready for m-payments to pay for fuel

Also apparently a thirst for mCommerce among non-smartphone owners *

Roy Ford (IT Controller, Spar)**: Higher value contactless payments could be driven in the UK by mobile payment on petrol forecourts

* Survey by TNS Infratest (on behalf of Yapital – July 2014)

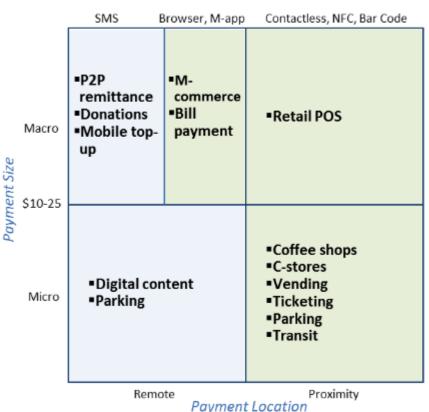
** Essential Retail (Feb 2014)





Mobile Payment





http://www.smartcardalliance.org/resources/pdf/Mobile_Payments_White_Paper_091611.pdf





USING THE MOBILE FOR PAYMENT

Embed payment in shopping experience

Include additional Services
Geolocation

Wallets - Seamless integration of

Loyalty

Discounts / Offers / Coupons

Electronic Receipts









The last 12 months...

'NFC' PAYMENT SHIFTING GEAR?







Sep 2013
Apple: iBeacon
(BLE)

Mar 2014 EMVCo: Tokenization Framework Sep 2014
Apple:
Apple Pay
(NFC)



Oct 2013
Google:
Android Kitkat

Mar 2014
NFC Forum:

10th anniversary

Sep 2014

MasterCard: Contactless POS Mandate in Europe



(HCE)

Jan 2014 Global

Platform: E2E Simplified Framework Feb 2014

VISA & MasterCard endorse HCE





Hosted Card Emulation



Tokenization

THE SILVER BULLET...FOR SIMPLER, STANDARDISED, SECURE MOBILE PAYMENTS?





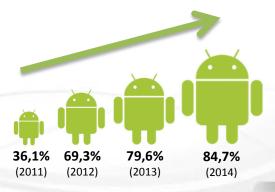


KEY DRIVERS ACCORDING TO JUNIPER

HCE and Apple Pay

3bn NFC Phones in 2014 18bn NFC Phones in 2018 **Android dominates**









HCE – FAST FACTS

Mobile (payment) applications can now emulate contactless cards.

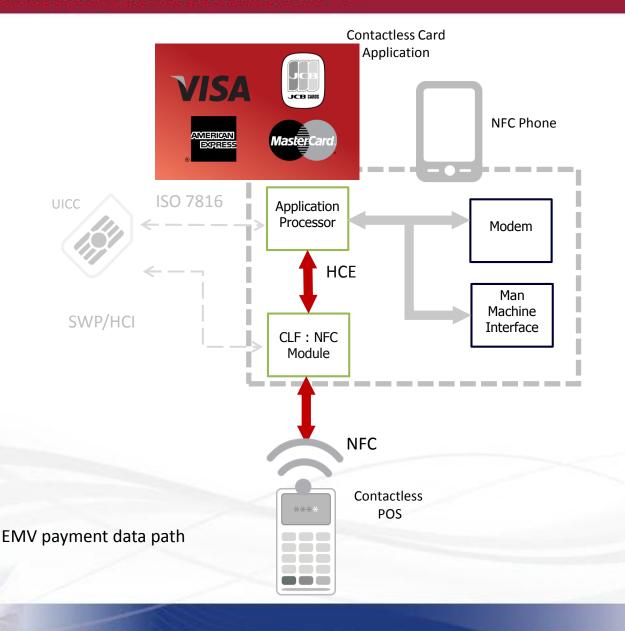
Mobile devices become contactless cards that can be used to pay, collect loyalty points, access buildings,...

Allows users to initiate a transaction without secure element. Credentials are stored in the cloud.













Reduces number of players: simplified ecosystem

Lighter delivery process

Banks have direct access to virtual cards

No changes to EMV contactless terminals

Only 20% of Android users have upgraded to KitKat

No hardware-based security







TOKENIZATION – FAST FACTS

Framework published by EMVCo, March 2014.

Added security for mobile & e-commerce payments

Substitutes sensitive credentials with a unique equivalent.









Avoids storing payment data on servers

Token has no value

Customisable: one time use, limited use, restrict to select channels or merchants

Online authentication required







A NEW GAME, DIFFERENT RULES

- Token Requestor
 - Initiates request to tokenize PAN
 - Can be:

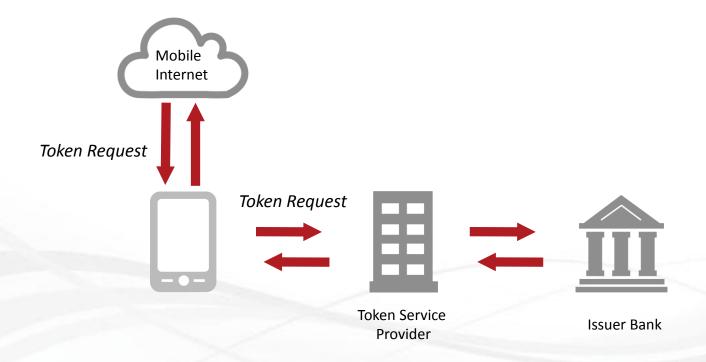
Card-on-File Merchant (eCommerce)
Acquirer (or entity on behalf of Merchant)
Payment Enabler (Paypal, Square,...)?
Digital Wallet Providers
Issuers

- Token Service Provider
 - Provider of Token Services
 - Tokenises PAN PAN/Token mapping stored in Token Vault
 - Used for de-tokenisation during authorisation, chargeback etc





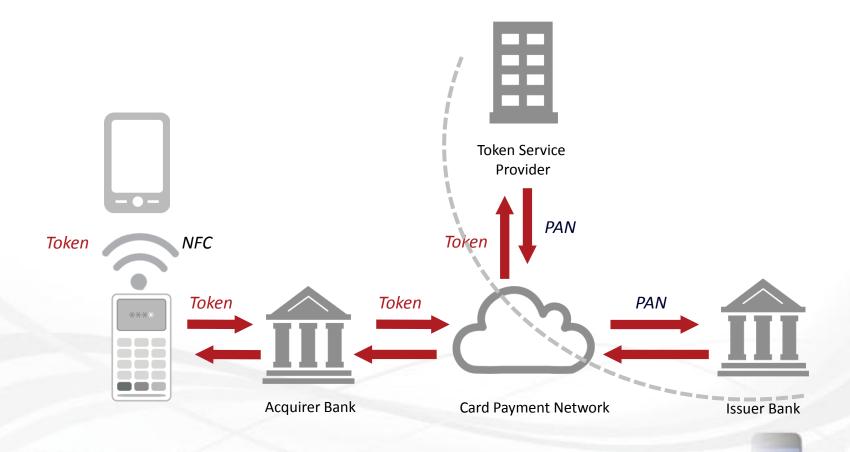
Token request: an example







Token usage: an authorisation example





MEANWHILE ... IN EUROPE

(AND A LITTLE BEYOND)





MICROS MIFUEL (UK)

Remote Mobile Payment

- 1. Log in using smartphone (Authorisation before fueling)
- 2. Select pump on phone
- 3. Tank
- 4. PayPal payment once the nozzle is replaced
- 5. Instant delivery of electronic receipt on phone

Marketing capabilities (Offers and promotions)

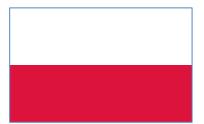






IKO APPLICATION (POLAND)

Remote Mobile Payment



6 digit single-use code generated in the cloud and seen in the app right after logging in.

Code is then entered by the user on the specific website, on the ATM keyboard or on the POS terminal

Includes acceptance at Shell







WORAPAY (LITHUANIA)

Proximity Mobile Payment



Scan QR code specific to every pump

After pumping the cash register will send you a bill Bill needs to be confirmed and payment is done

Includes acceptance at Lukoil







DIALOG TOUCH CORPORATE FUEL CARD (SRI LANKA)



Proximity Mobile Payment

NFC Corporate Fuel Card Mobile App

Corporate fuel cardholders

150 Sri Lankan companies and 4,000 users

102 'Touch' enabled Lankan Indian Oil Co and Laugfs fuel stations

Geo-location to locate fuel stations from their mobile device







Thank You!



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