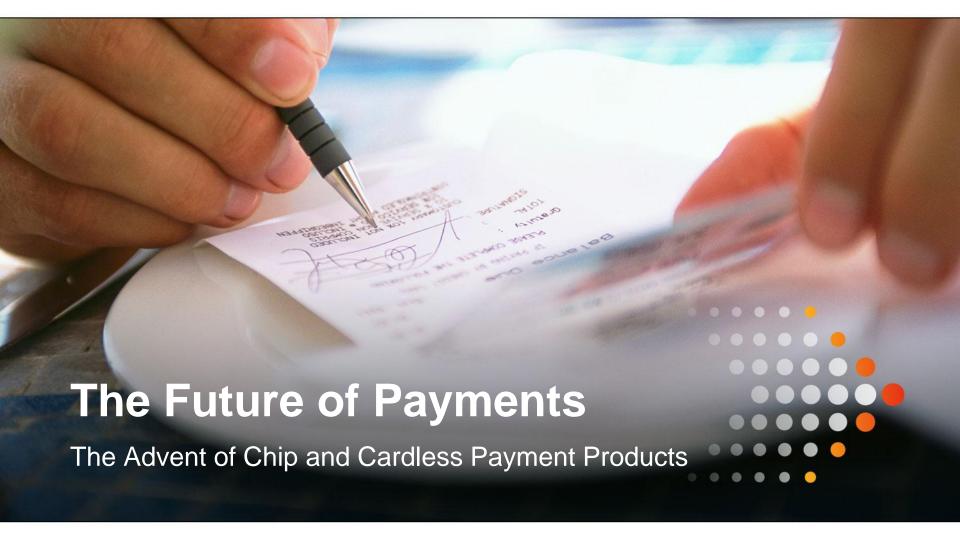


Mark Aquilina, VP/Business Leader | MasterCard Commercial Products September 29<sup>th</sup>, 2014





# Agenda



- Convergence
- How Technology is Shaping the Future of Payments
  - EMV
  - Contactless
  - Virtual Cards
    - Purchasing
    - Travel
  - Mobile Payments and Wallets
- Considerations and Benefits to Travel Programs

# Physical and Digital Worlds are Converging





Every connected device will become a commerce device

**Shop online** 

**Shop in-store** 

**Enhanced experiences** 

**Receive payments** 



# Global Cardholders are Transacting Anywhere: Online, Offline, Physical, Digital



Receiving payroll and social benefits on mobile phone or card



Paying bills or merchants via SMS on a mobile phone



Accessing ATMs and merchants



**Emerging Market Developed Market** 

# Consumer Experiences



Shopping on a mobile phone or tablet



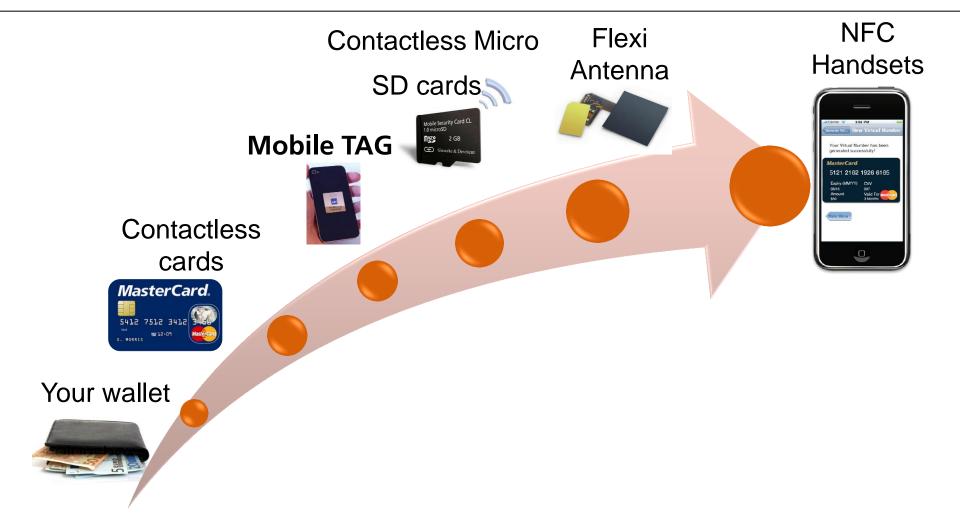
Commuting with a *PayPass* enabled mobile phone



Dining with a physical card







# **EMV: Foundation for the Next Generation of Payment Products and Services**





#### What is EMV?



- EMV chip cards leverage microprocessor technology
  - Increased transaction security features
  - On-behalf network security services
  - Application capabilities not possible with traditional magnetic stripe cards:
    - Customized authorizations
    - Cardholder profiles
    - Gate/door access





## **Commercial Analog to Digital Transition**





- Passive
- **Limited Data**
- One Size Fits All











- Flexible content
- Active
- **High Capacity**
- Customizable



# The Cardholder Experience



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#### Card Authentication

Cardholder inserts or taps card on terminal



Cardholder Verification Cardholder enters

PIN or signature



**Transaction Authorization** 

Transaction is approved and completed







# How the Cardholder Experience is Influenced by the Card Issued



	Mag Stripe	Chip & Signature	Chip & PIN			
Connectivity	Issuer's host system	Terminal interacts with info on the chip for verification, authorization, and approval				
Information	Limited info stored on card	May hold additional information (e.g. rewards)				
Acceptance (General)	Steady	Increasing	Increasing			
Current Acceptance Outside the US:						
Toll booths	Sometimes	Sometimes	Yes			
Unattended kiosks	No	Sometimes	Yes			
Automated Fuel Dispensers	No	No	Yes			
Onboard (trains and planes)	Sometimes	Sometimes	Yes			

## **Next steps - EMV**



- Things to consider
  - Do you have a large number of cross border transactions?
  - What features are most important to your company?
- Talk with your issuer to find the chip card and timing that is right for your organization



#### **Contactless**



- Contactless payment solutions give cardholders the convenience of making payments without handing over or swiping a payment card.
- Types of Transactions
  - Transit
  - Quick Serve Restaurants
  - Low value payments (Drug Stores)
- Form Factor
  - Chip on card
  - Sticker





#### **Virtual Cards**



- Any payment where physical plastic is not issued
- Form Factor
  - Ghost Account (aka BTA, CTS, CTA, Lodged Card)
  - Multiple Use Account with one vendor (aka, VCN)
  - Single Use Account (aka SUA, VCN)
- Types of Payments
  - Air for whole company (ghost account) transacted through an agency for multiple vendors
  - Office supplies (multiple use account, lodged card) with one vendor
  - B2B payment (SUA) for specified amount, usually time bound

#### **Virtual Cards**



- Single Use Accounts are used
  - For enhanced control and security purposes
    - certain employees may request a single virtual card number which is approved through a workflow process for a specific amount and purchase category
  - For the accounts payable application to displace check payments
    - the customer's accounts payable system sends a file to batch requests of virtual card numbers
  - By a distributor/re-seller in the B2B space for each separate supplier
    - full amount is charged to the re-sellers primary account

### **Mobile Payments and Wallets**



- What is Mobile?
  - Cloud, NFC, or both?
- Form Factor (today)
  - Wirelessly via NFC chip in the handset (Google Wallet)
  - Optically via barcodes (Starbucks app)
  - Wallets today are only for online eCommerce use
    - (MasterPass , PayPal, vMe)



- Form Factor (future)
  - Integration with offers, coupons, eReceipts, and geoloacation services
  - Wallets tomorrow could be used for any remote payment, and may interact with the secure element on the EMV chip

# Benefits and Considerations of Existing and Emerging Payment Technology for Travel Programs



	EMV	Contactless	Virtual	Mobile/Wallets
Demonstrated Benefits	<ul> <li>Greater acceptance</li> <li>Greater data collection</li> <li>Increase convenience for travelers</li> <li>Increase traveler safety (carry less cash)</li> <li>Increase traveler satisfaction</li> <li>Increase overall spend on card</li> </ul>	Same as EMV, plus • Convert small cash transactions to card	<ul> <li>Greater control over payment</li> <li>Range of solutions to fit payment needs</li> <li>Improves reconciliation</li> <li>Greater data collection</li> <li>More secure/less fraud</li> </ul>	<ul> <li>Integration into other products and services</li> <li>Increase convenience for travelers</li> <li>Increase traveler satisfaction</li> </ul>
Considerations	<ul> <li>Need to remember a PIN</li> <li>Already a global standard, so international travelers are impacted now</li> </ul>	<ul> <li>Card, sticker, or mobile integration</li> </ul>	<ul> <li>May require additional support</li> <li>Spectrum of v-payment options to choose from</li> </ul>	<ul> <li>Business travelers will adopt sooner</li> <li>Security - ensure IT involvement</li> <li>Merchant acceptance currently limited</li> </ul>





- The payments landscape is dynamic
- Innovations will change how we pay
- Consider security, convenience, and cost when evaluating new options
- Engage your issuer now