American Express Contactless Payments Help Enable Increased Convenience For Card Members At The Point Of Sale

American Express contactless payment technology (also known as proximity) enables card members and merchants to complete payments with added speed and convenience. American Express contactless payments are implemented primarily on cards may also be made available via other devices such as mobile phones, fobs and stickers.

American Express cards that contain an American Express contactless-enabled chip will typically have a magnetic stripe and EMV contact chip technology so the card can continue to be used in acceptance environments that have not migrated to contactless acceptance.

The American Express contactless specification is called Expresspay which ensures global interoperability of American Express contactless payment transactions regardless of where they are processed. Once Expresspay is enabled, contactless transactions can be initiated in both EMV and non-EMV markets.

The Customer & Merchant Experience

**Step 1**
Customers look for the contactless identifier at checkout to indicate contactless acceptance.

**Step 2**
Customers tap their American Express contactless device in front of the reader which uses secure radio frequency technology to transfer transaction data.

**Step 3**
The terminal sends data for authorization processing. Then, the customers collect their purchases and go. If customers want a receipt, they can simply ask.
Build Business Momentum With Contactless Payments

Drawing on American Express’ experience in digital commerce innovation, issuing and acquiring partners can take advantage of opportunities presented by contactless to grow revenue, drive top-of-wallet preference through an improved customer experience, and upgrading virtually seamlessly.

Grow Revenue

- Gain opportunities to partner with leaders in the digital space to help capitalize on digital commerce.
- Help grow your business by offering an expanded suite of products to merchants.
- Gain incremental revenue by promoting a technology that encourages card spending over cash.

Drive Top-Of-Wallet Preference

- Enable consumer-preferred forms of payment.
- Ensure a secure shopping experience to gain card member trust and confidence.
- Understand customer purchasing behavior to provide relevant follow-up offers and ensure customer loyalty beyond the POS.
- Provide a more seamless and convenient customer experience by allowing card members to easily access instant credit, replace lost/stolen cards, etc.

1 million

Contactless transactions processed per day for transit provider, Transport for London in 2015

60%

Of transactions at UK supermarkets and grocery stores are contactless.

51%

Of transactions in UK retail stores are contactless.

60%

Of transactions at UK bars and restaurants are contactless.

EXAMPLES OF MERCHANTS BEST SERVED BY CONTACTLESS + MOBILE

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<thead>
<tr>
<th>TRANSIT</th>
<th>CONVENIENCE</th>
<th>ESSENTIALS</th>
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1 “TfL named fastest growing contactless merchant in Europe”, www.tfl.gov.uk, 17 March 2015
2 “Contactless Made Easy”, Worldpay 2014
How Contactless Payments Work

In order to use contactless payment technology, a card member simply places their contactless-enabled device in close proximity of the American Express contactless payments POS terminal.

Contactless POS transactions are processed via the acquirer and American Express network to the issuer, per standard transaction processing. The issuer will be able to identify contactless transactions through specific indicators in authorization and settlement messages.

Leverage The Benefits of EMV

American Express Contactless is designed to support two transaction modes both of which leverage chip technology.

- **Expresspay EMV Mode** – Designed for those issuers and acquirers who support EMV data, the terminal sends all of the standard EMV data elements in the authorization and settlement messages, allowing use of EMV security features.

- **Expresspay Magstripe Mode** – Designed for issuers and acquirers who do not accept EMV data, the terminal sends data for authorization and clearing submissions in a similar format as traditional magnetic stripe transactions. Importantly, the terminal and card interactions are still based on EMV, enabling some EMV security features to be utilized.

Expresspay card and terminal specifications mandate the support for magstripe mode to ensure interoperability and contactless acceptance globally. For more information on details on EMV security features, please see the EMV Product Capability guide or speak to your American Express representative.

Enabling Faster Transaction Speeds

American Express Contactless using the Expresspay specification has the flexibility to support faster transaction speeds through card member verification and transaction authorization modes.

**CARDMEMBER VERIFICATION**

Contactless transactions do not require a card member PIN or signature if the value is under their local market threshold, as indicated in the Business and Operational Policies (BOP) Manual.

The No Signature program provides increased convenience for low-value transactions for both the card member and merchant.

**TRANSACTION AUTHORIZATION MODES**

**OFFLINE TRANSACTION (EMV mode only)**

Contactless transactions can be approved either offline or online, this is dependent on the floor limit set in the terminal, the ability of the terminal to accept EMV contactless transactions and the outcome of decision making between the card and the terminal.

**ONLINE TRANSACTION**

The issuer is contacted during the authorization process, but the card is not present to process the authorization response. In this case, the terminal decides whether to accept the transaction, based on the response from the issuer.
Implementation & Investment Considerations

ISSUER
Implementation
• Product development—design, development, testing and certification of card platforms
• Card production—manufacturing a magnetic stripe card or one containing an antenna, and then embedding a chip module in the card
• Data/systems preparation—developing crypto-graphic material for personalization. Updating host systems to process Expresspay transactions
• Card personalization—writing data onto magnetic strip, embossing, securely loading data into chip, and delivery of card to card member

Investment Components
• Chip procurement, card design, and personalization, card delivery to card member.
• Host systems development and data preparation
• Certification and testing
• Communications and training
* Precise costs will depend on a number of factors

ACQUIRER
Implementation
• Terminal hardware/software upgrades—deployment of terminal readers, implementation of Expresspay specifications
• Acquirer Network updates
• Merchant operations—updates to merchant billing systems, support of Expresspay disputes policy, merchant implementation incentives

Investment Components
• Terminal hardware/software upgrades
• Certification
• Communication and training
• Merchant operations—employee training, update fraud/risk management
* Precise costs will depend on a number of factors

CONTACTLESS BRANDING CONSIDERATIONS
The EMVCo contactless symbol and indicator identifies contactless terminals and payment vehicles. These icons are now used worldwide to signal contactless payments and are easily recognized by consumers in regions where contactless payments have become common.

The EMVCo Contactless Symbol** should only appear on terminals with contactless capability.

The EMVCo Contactless Indicator** appears on the back and/or front of an American Express® card to indicate contactless technology.

**The Contactless Symbol and Indicator are owned by EMVCo., the standards body for contact and contactless specifications, is jointly owned by American Express, JCB, MasterCard, UnionPay and Visa. EMVCo manages, maintains and enhances the EMV Integrated Circuit Card (ICC) specifications to help facilitate global interoperability and compatibility of cards and acceptance devices.
Frequently Asked Questions

How long will it generally take for an issuer to launch a contactless product?
Migrating to contactless payments technology is a complex project that will impact issuing and acquiring infrastructures as well as back-end authorization systems. Specific information regarding adoption can be obtained by contacting your local American Express Global Network representative.

Are contactless card payments secure?
Yes. Contactless cards benefit from the same EMV security features found on a standard contact card. Occasionally contactless terminals will prompt the card member to perform a “Chip & PIN” transaction. When a contactless transaction is run through a contactless-enabled reader and terminal, information is encrypted and sent to the host with the purchase details. The transaction is processed through the same secure networks as contact transactions; it is either validated by verifying the encrypted data, or rejected at POS if the transaction is fraudulent.

What is the difference between a contactless card and a contact chip card?
Contact EMV™ chip cards are either “Chip and PIN” or “Chip and Signature” cards. Both payment cards utilize microprocessor chips which securely store card data. The card is inserted into a terminal reader designed for smart cards. “Chip and PIN” cards requires the customer to enter a PIN for authorization at the point of sale similar to an ATM. For “Chip and Signature” cards, customers sign for the transaction as with magnetic stripe cards.
Contactless transactions are initiated when a contactless-enabled device is waved in front of a contactless reader at the point of sale. Account and security information is then sent wirelessly, using radio frequency, from the contactless device to the reader. Both contactless cards and contactless readers contain small antennae that allow data communication to take place.

If chip cards are more secure, why don’t all cards have chips in them?
Moving to chip cards requires an investment in technology by both the issuer and the merchant. The move to chip cards has been evolving at a different pace throughout the world.

How do you recognize a contactless card from an EMV contact card, since they both may contain chips?
Contactless cards display the EMVCo Contactless Indicator wave symbol on the back and/or front of the card to indicate contactless technology. In most markets, the majority of contactless cards issuance will be dual-interface with both EMV contact-chip and contactless capability. Dual interface cards combine both technologies and can communicate either way (contact or contactless).