Webinar: Preventing Card-Not-Present Fraud

VISA

Gord Jamieson, *Risk Services* Andrew McGloin, *Risk Services* David Richey, *Risk & Auth Products*

8 December 2016

Disclaimer

The information or recommendations contained herein are provided "AS IS" and intended for informational purposes only and should not be relied upon for operational, marketing, legal, technical, tax, financial or other advice. When implementing any new strategy or practice, you should consult with your legal counsel to determine what laws and regulations may apply to your specific circumstances. The actual costs, savings and benefits of any recommendations or programs may vary based upon your specific business needs and program requirements. By their nature, recommendations are not guarantees of future performance or results and are subject to risks, uncertainties and assumptions that are difficult to predict or quantify. Assumptions were made by us in light of our experience and our perceptions of historical trends, current conditions and expected future developments and other factors that we believe are appropriate under the circumstance. Recommendations are subject to risks and uncertainties, which may cause actual and future results and trends to differ materially from the assumptions or recommendations. Visa is not responsible for your use of the information contained herein (including errors, omissions, inaccuracy or non-timeliness of any kind) or any assumptions or conclusions you might draw from its use. Visa makes no warranty, express or implied, and explicitly disclaims the warranties of merchantability and fitness for a particular purpose, any warranty of non-infringement of any third party's intellectual property rights, any warranty that the information will meet the requirements of a client, or any warranty that the information is updated and will be error free. To the extent permitted by applicable law, Visa shall not be liable to a client or any third party for any damages under any theory of law, including, without limitation, any special, consequential, incidental or punitive damages, nor any damages for loss of business profits, business interruption, loss of business information, or other monetary loss, even if advised of the possibility of such damages.

Copyright

© 2016 Visa. All Rights Reserved. This presentation may not be reproduced, further distributed, or published, in whole or in part, without Visa Canada's prior written permission.



Forward-looking statements and disclaimer

This presentation may contain forward-looking statements within the meaning of the U.S. Private Securities Litigation Reform Act of 1995. These statements can be identified by the terms "objective," "goal," "strategy," "opportunities," "continue," "can," "will," and other similar references to the future. Examples of such forward-looking statements may include, but are not limited to, statements we make about our corporate strategy and product goals, plans, and objectives. By their nature, forward-looking statements: (i) speak only as of the date they are made, (ii) are neither statements of historical fact nor guarantees of future performance, and (iii) are subject to risks, uncertainties, assumptions, and changes in circumstances that are difficult to predict or quantify. Therefore, actual results could differ materially and adversely from those forward-looking statements for a variety of reasons, including macroeconomic and industry factors such as currency exchange rates, global economic, political, health and other conditions, competitive pressure on customer pricing and in the payments industry generally, and material changes in our customers' performance compared to our estimates; systemic developments such as disruption of our transaction processing systems or the inability to process transactions efficiently, account data breaches involving card data stored by us or third parties, and increased fraudulent and other illegal activity involving our cards; and other factors discussed under the heading "Risk Factors" in our most recent Annual Report on Form 10-K and our most recent Quarterly Reports on Form 10-Q. You should not place undue reliance on such statements. Unless required to do so by law, we do not intend to update or revise any forward-looking statement because of new information or future developments or otherwise.

Studies, survey results, research, recommendations, and opportunity assessments are provided for informational purposes only and should not be relied upon for marketing, legal, regulatory, or other advice. Recommendations and opportunities should be independently evaluated in light of your specific business needs and any applicable laws and regulations. Visa is not responsible for your use of any studies, survey results, research, recommendations, opportunity assessments, or other information, including errors of any kind, or any assumptions or conclusions you might draw from their use. Except where statistically significant differences are specifically noted, survey results should be considered directional only.



Agenda

- E-Commerce Landscape and Fraud Trends
- Visa's CNP strategy
- Effective Merchant Fraud Management Strategy
- Common Flags for CNP Fraud
- Visa Merchant Purchase Inquiry







E-Commerce Landscape and Fraud Trends



Visa Public

Why are we talking about CNP?



Challenge: we expect CNP fraud to continue to outpace sales in the channel as markets migrate to EMV Chip



CNP Landscape: Trends and Drivers



Source: EBI, FPB, 04/30/2013 *Based on VisaNet transactions only, includes eCommerce & MOTO for YE June 2016 All brand names and logos are the property of their owners and are used in this presentation for identification purposes only, and do not imply product endorsement.







Historic CNP Fraud Rates

US CNP fraud is expected to change similar to experiences in other markets

- When chip-on-chip rates hit a breaking point of approximately 50%, fraudsters shift away from EMV terminals to the CNP channel.
- One year after 50% chip-on-chip, Canada and Australia saw CNP fraud rates increase by 30.1% and 126.1% respectively.



Australian and Canadian CNP Fraud Rates



Visa's CNP Strategy



Visa Public

Visa's strategy to address CNP fraud : Smarter security through risk based and dynamic authentication



Devalue Payment Data

Make sensitive data useless through stronger technology

Eliminate Transaction Friction

Improve the exchange of information

Reduce Fraud

Enhance predictive analytics and modeling

Objectives in Addressing Risk

An Interconnected Approach to Balancing Risk, Convenience, and Investment







Effective Fraud Management Strategy



Effective fraud management requires a layered security strategy



Effectiveness Against Fraud

Automated Screening: most adopted fraud tool



Source: CyberSource Online Fraud Management Benchmark Report, 2016 http://forms.cybersource.com/LP=1248

Card Not Present Fraud Tools

Whether you conduct your business by mail order, phone or over the Internet, Visa offers layers of protection.



- Merchants who support CNP transactions can reduce their exposure to fraudulent transactions through an effective combination of Visa tools and acceptance procedures
- Use the CVV2 and AVS response codes correctly
- Consider additional checks or screening for 'no match' responses

Card Verification Value 2 (CVV2)



- The Card Verification Value 2 (CVV2)* is a three-digit security number printed on the back of Visa cards to help validate that a customer is in possession of the card at the time of an order.
- These numbers are used to help merchants validate that the customer has a genuine card in his or her possession during an Internet or Telephone Order transaction

Studies show that merchants who include CVV2 validation in their authorization procedures for card-absent transactions can reduce their fraud-related chargebacks, and should use CVV2 as a fraud reduction tool.

Address Verification Service (AVS)

- Use AVS to verify the cardholder billing address
 - Confirm the order information
 - Ask the customer for the billing address (street address and/or postal code) for the card being used
- Evaluate the AVS response code and take appropriate action based on all transaction characteristics and any other verification information received with the authorization (i.e., expiration date, CVV2, etc.).

• Do not accept any transaction that has been declined, regardless of the AVS response.



Improving CNP with enhanced data exchange



3D Secure improvements

3DS 2.0 protocol enhances issuer risk-based authentication capabilities and improves the user experience across multiple form factors and use cases



3-D Secure 1.0	3-D Secure 2.0
🖌 limited	🖌 expanded
	\checkmark
	✓
3-D Secure 1.0	3-D Secure 2.0
✓	✓
	✓
	✓ limited



More Data for Authentication and Security	3-D Secure 1.0	3-D Secure 2.0
 Payment-related data 	🖌 limited	expanded
 Non-payment related data 		✓
 Support for new and future authentication methods 		\checkmark

The Benefits of Risk-based Authentication

85%

Reduction in checkout time when compared to previous 3DS solution

Reduction in abandonment when compared to previous 3DS solution

> of customers challenged with risk-based approach

> > Fewer inbound calls relating to password resets



A better user experience

Less friction – with only 5% of transactions deemed to be higher risk, 95% of transactions now require no cardholder authentication

Faster transactions

Increased speed – following the implementation, average transaction times reduced from 50 seconds to ten seconds

Increased transaction volumes and e-commerce revenues

Higher conversion rates – following the implementation, abandonment dropped from over 4% to under 1%

Cost savings Fewer customer calls – following the implementation, customer requests for password re-

sets tumbled by 85%



Stable fraud levels

Low losses – despite the elimination of active authentication on 95% of transactions, e-commerce fraud levels remained reassuringly low

Source: Visa Europe Case Study on Risk-based Authentication, May 2016

Risk Scoring and Neural Networks

Helps minimize fraud losses, maximize revenue and minimize operational costs

- Allows businesses to customize rules and models to your specific business, across all sales channels, including web, mobile, call center, and kiosks
- Confidently quantify fraud strategies in real time prior to activating in the live production environment
- Quickly test various 'what-if' rules profiles against historical data rather than wait months to understand the impact of any fraud changes

Number of third-party vendors that can provide such services to merchants such as:

- CyberSource
- Kount
- Acertify

Using a Positive Database

Build a comprehensive database of "positive-list" customers

- Encourage use of customer registration programs
 - Promote rewards programs for customers that 'sign in'
 - Creates opportunity to increase customer satisfaction
- Limit or reduce fraud screening for regular 'positive list' customers to avoid unnecessary delays / expenses
- Securely store all data in compliance with PCI Data Security Standards*
 - Avoid storing data that is no longer required
- * The laws relevant to the definition, collection, storage and use of personal information may vary by jurisdiction and should be completed in accordance with applicable law. Card account numbers and other sensitive elements must be handled in accordance with the PCI DSS and, if stored truncated or encrypted.

Using a Negative Database

Utilize a negative database to reduce the impact of fraudulent transactions

- Maintain key attributes of previously identified fraudulent transactions
- Include data from fraud and chargeback reports
- Flag transactions for further review or 'decline' where appropriate
- Consider at least the minimum following attributes:
 - 1. IP Address
 - 2. Cardholder Name
- 4. Phone Number

3. E-mail Address

5. Shipping Address

* The laws relevant to the definition, collection, storage and use of personal information may vary by jurisdiction and should be completed in accordance with applicable law. Card account numbers and other sensitive elements must be handled in accordance with the PCI DSS and, if stored truncated or encrypted.



Professional Expertise

- Establish a formal fraud control function
- Perform internal fraud screening
- Establish procedures for responding to suspicious transactions and dollar thresholds
- Track fraud control performance and adjust fraud tools
- Train your employees to have a thorough understanding of fraud risk, chargebacks, rules and your risk management policies and procedures.
- Work with your acquirer to ensure you are using all the necessary tools



Common Red Flags for Card Not Present Fraud



Common 'Red Flags' for Card Not Present (CNP) Fraud

Product / Order Flags

- Larger-than-normal orders
- Multiple orders for the same product
- Multiple cards used for a single purchase
- Orders for products readily convertible to cash (gift cards)
- Orders made up of "big-ticket" items

Delivery Flags

- Customer requests "rush" or "overnight" delivery
- Single card used with multiple shipping addresses
- Delivery to an international address
- Billing address different than shipping address

Customer Flags

- Orders have different names, addresses, and card numbers, but from a single IP address
- Internet addresses at free e-mail services
- Multiple transactions on a single card over a short time period
- First time customer and the order does not fit the "average" customer purchase pattern



What You Should Know About CNP Fraud There is no "silver bullet" to effectively managing CNP fraud

- Fraudsters take full advantage of the anonymity of the Internet
- An authorization is not proof that the true cardholder is making the purchase. More is needed to detect fraud.
- Effective fraud management requires a layered security strategy
- Continuously track and analyze fraud trends. Modify risk controls and acceptance procedures accordingly.
- Regularly measure your performance to ensure your strategy is effective

Fraud can affect an internet merchant's bottom line – a merchant can be held financially responsible for fraud even if the transaction was approved



Visa Merchant Purchase Inquiry (VMPI)

Solution Overview

VISA

Background

Consumer complaints that lead to disputed transactions are reactive today, causing significant overhead and cost for all participants in the payment chain



Visa Merchant Purchase Inquiry – Digital Goods

Merchants are able to satisfy the cardholder queries through providing information at the point of escalation to the Issuer



Opportunity by Category

 There is significant opportunity due to the nature of disputes by their category, in order to avoid claims at the forefront of the dispute process, reducing costs and financial exposure for all transaction participants







Upcoming Events and Resources

Upcoming Webinars https://visa.com/cisp

Visa Data Security https://visa.com/cisp

PCI Security Standards Council Website https://pcissc.org **Speaker contact information:**

- Andrew McGloin <u>amcgloin@visa.com</u>
- Gord Jamieson <u>GJamieso@visa.com</u>
- David Richey <u>drichey@visa.com</u>
- Michelle Levin <u>milevin@visa.com</u>



VISA



Questions

