# Webinar: Preventing Card-Not-Present Fraud



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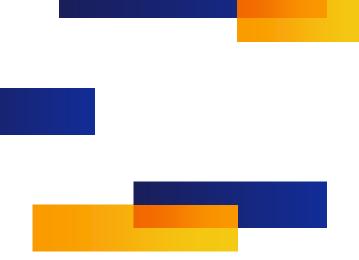
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## Agenda

- 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



## 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**

### **Trends**

## Rapid channel growth

Double digit YoY growth rates for the last 5 years (13% for YE Q2 2016)

# Disproportionate fraud relative to channel

CNP accounts for 52% of US domestic total fraud but is only 40% of total sales volume\*

### New Players, Products & Services











### **Drivers**

### Multiple

## authentication solutions

Proprietary (Fraud Models, Biometrics, Devices) Vs. Industry (3DS, Payment Tokens, EMVCo)

#### **Increased**

### regulatory attention

Regulation: USA, European Banking Authority, India, South Africa, Korea, etc.

Need to change our Reliance on static authentication data

(Three digit Code, Address Verification Service)

### **Legacy policies and rules**

(Chargeback Rules, Acceptance Risk Programs)

Stakeholders want frictionless

commerce

Visa Consumer Authentication Service Verified by VISA

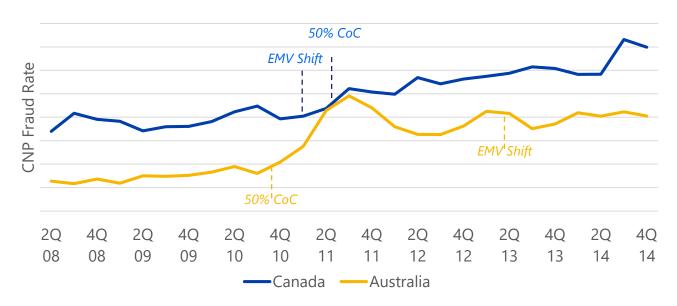


### Historic CNP Fraud Rates

### 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.









# 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

## Devalue Payment Data







## Reduce Cost of Fraud







Visa Transaction Advisor (VTA)



Device Level
Authentication

## **Eliminate Transaction Friction**



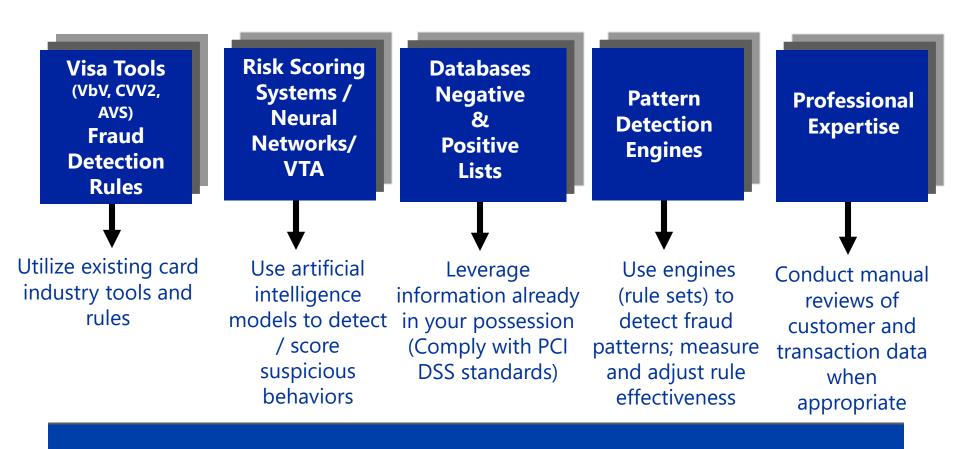




## Effective Fraud Management Strategy



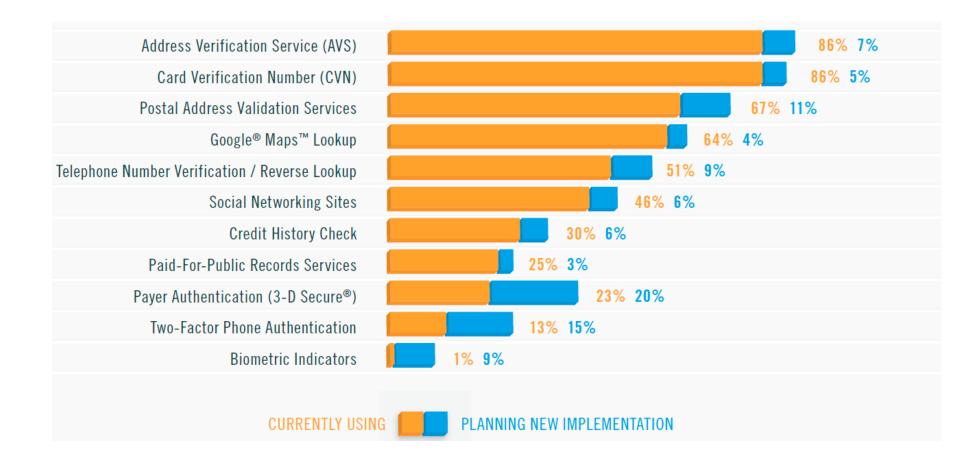
# Effective fraud management requires a layered security strategy



### **Effectiveness Against Fraud**



### Automated Screening: most adopted fraud tool

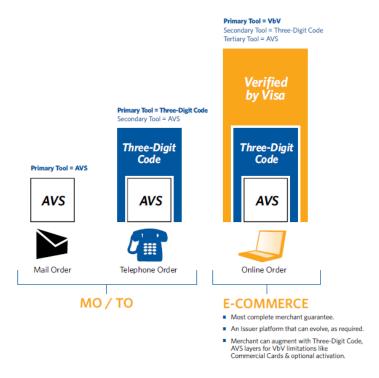


Source: CyberSource Online Fraud Management Benchmark Report, 2016 http://forms.cybersource.com/LP=1248



### 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

## **Enhancing risk-based analytics**



Additional data points available

## Improving the checkout experience



No step up authentication and more integrated into the purchase environment

## Expanding data exchange



In-app and non-payment related uses (i.e., account provisioning)



### 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

	Improved User Experience	3-D Secure 1.0	3-D Secure 2.0
	Capable of integration with the merchant experience	✓ limited	✓ expande
	<ul> <li>Removal of Activation During Shopping</li> </ul>		✓
	Reduce the number of messages required		✓
Àmage	Flexible Device and Channel Support	3-D Secure 1.0	3-D Secure 2.0
	Browser-based authentication support	✓	✓
	<ul> <li>Mobile/application-based authentication support</li> </ul>		✓
	Digital Wallet, Non-payment-based authentication		✓
Q <del>B</del>	More Data for Authentication and Security	3-D Secure 1.0	3-D Secure 2.0
	Payment-related data	✓ limited	✓ expande
	<ul> <li>Non-payment related data</li> </ul>		✓
	<ul> <li>Support for new and future authentication methods</li> </ul>		✓



### The Benefits of Risk-based Authentication

85%

Reduction in checkout time when compared to previous 3DS solution

70%

Reduction in abandonment when compared to previous 3DS solution

5%

of customers challenged with risk-based approach

85%

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 resets 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



<sup>\*</sup> 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
  - Cardholder Name
- 4. Phone Number

3. E-mail Address

5. Shipping Address



<sup>\*</sup> 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** 

### Background

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

Current Landscape

- Today, acquirers/merchants are \*reacting\* to financial claims filed by cardholders/issuers
- 45 days to provide compelling evidence to support existing charge
- Limited ways to encourage "proactive" contact by issuers, acquirers or merchants
- Impact can be severe for cardholder experience and consumer confidence

Key Reasons for Consumer Complaints "I did not make this purchase, it must be fraud." "I am not sure if I made this purchase because I don't recognize it."

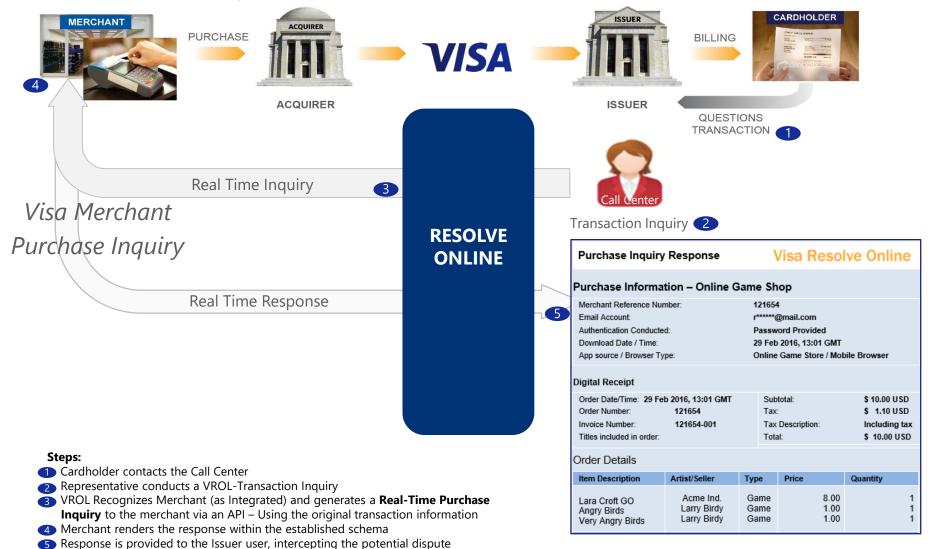
"I made this purchase, but there's a problem."

### **Existing Dispute Process Flow**



### Visa Merchant Purchase Inquiry – Digital Goods

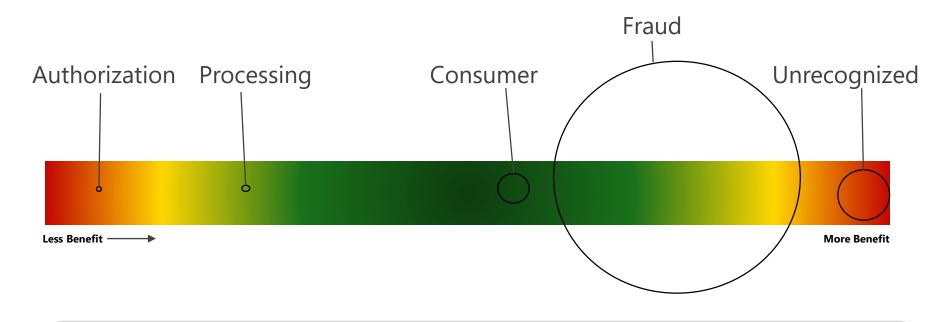
Merchants are able to satisfy the cardholder queries through providing information at the point of escalation to the Issuer





## 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



"I shouldn't have been charged. I was declined at the POS." "I made this purchase but the transaction amount is incorrect."

"The product I ordered is not working"

"I did not make this purchase."

"I need more information because I don't recognize this purchase."





## **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

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