

# 2015 Visa Payment Security Symposium

The Power of Partnership

AUGUST 12-13 | HYATT REGENCY | BURLINGAME, CA

VISA

## 2015 Visa Payment Security Symposium Webinar



Diana Greenhaw – Sr. Director, Global Data Security and Third Party Risk

Lester Chan – Director, North America Merchant Security

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## Forward-Looking Statements

The materials, presentations and discussions during this meeting 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 "will," "new," "continue," "could," "accelerate," 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 plans and goals regarding authentication, risk and fraud, the effect of developments in regulatory environment, and other developments in electronic payments.

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- the impact of regulation, including its effect on issuer and retailer practices and product categories, and the adoption of similar and related laws and regulations elsewhere;
- developments in current or future disputes
- macroeconomic and industry factors such as: global economic, political, health and other conditions; competitive pressure on customer pricing and in the payments industry generally; material changes in our customers' performance compared to our estimates; and disintermediation from the payments value stream through government actions or bilateral agreements;
- 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; increased fraudulent and other illegal activity involving our cards; failure to maintain interoperability between our and Visa Europe's authorization and clearing and settlement systems; loss of organizational effectiveness or key employees; and
- the other factors discussed under the heading "Risk Factors" herein and in our most recent Annual Report on Form 10-K and our most recent Quarterly Reports on Form 10-Q.

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# Day 1 – General Session

Diana Greenhaw – Sr. Director, Global Data Security and Third Party Risk



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## Event Summary

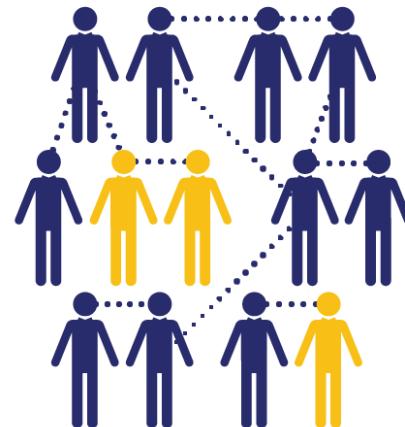
- Almost 400 participants from processors, third party agents, acquirers, merchants and event sponsors
- More than 40 industry expert panelists and speakers, including:
  - Ellen Richey, Vice Chairman – Risk and Public Policy, Visa Inc.
  - Mahesh Aditya, Chief Risk Officer, Visa Inc.
  - Jim McCarthy, Executive Vice President – Innovation and Strategic Partnerships, Visa Inc.
- Nine sponsors



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## The Power of Partnership: Securing the Future of Commerce Together

- Partners play a strategic role in securing the payment system
- Increasing involvement of non-traditional stakeholders and emerging technology organizations in payments
- Critical to maintain trust while extending payment environment and incorporating innovation



No one can do it alone!

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## After the Compromise: Lessons Learned

- Communication – at all levels – is key to successful incident management and resolution
- Organizations must understand the difference between the annual PCI DSS validation exercise and maintaining ongoing enterprise-wide data security
- Information sharing on cyber threats and compromise trends are critical to effective data protection
- You do not want to go through a compromise!



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## Managing Risk with Secure Technology

- The future of payment system security is data devaluation
- Several technologies include inherent security features:
  - EMV Chip
  - Point-to-Point Encryption
  - Tokenization
- Organizations must use the solution that works best for their environment and understand how the technologies work together to create layers of security
- As emerging technologies continue to enter the payment environment, a key to success is the balance of innovation, convenience and security



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## U.S. EMV Migration Update

- U.S. EMV counterfeit liability shift – October 2015
- Liability shift date is not the finish line, but a starting point
- Multi-layered security approach provides best protection payment system stakeholders and downstream customers

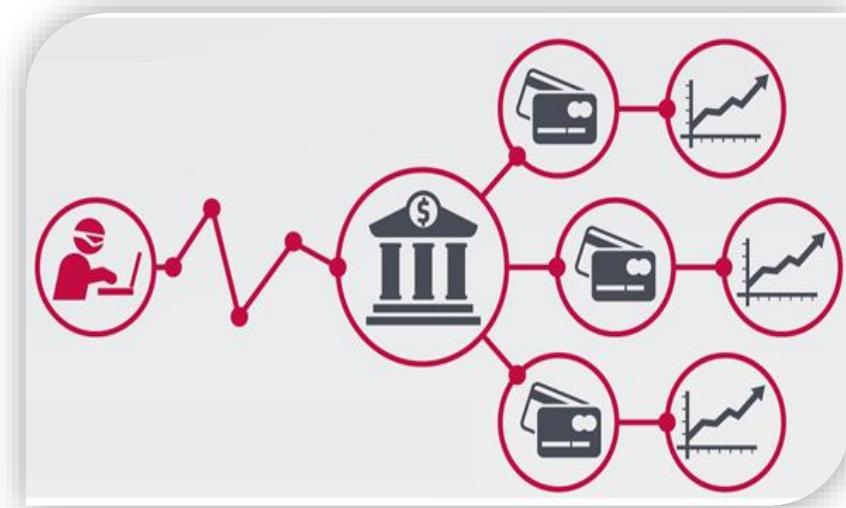
- 117 Million EMV Chip Cards Issued
  - 78.1 Million Credit Cards
  - 39 Million Debit Cards
- 247,000 Activated EMV Terminals

Sources: Current cards based on MARS data through June 30, 2015; credit / debit card forecast per Aite Report – EMV: Lessons Learned and the U.S. Outlook (June 2014); activated terminal forecast per Payment Security Taskforce Acquirer projections press release (October 2014) <sup>1</sup>Forecast based on information currently available to Visa. Actual results may vary significantly.

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## Cyber Security Threats and Mitigation Strategies

- Security Metrics performed a “live” hacking demonstration illustrating how quickly hackers can access insecure systems to obtain cardholder data
- Criminals are shifting their attack methods and targets – the path of least resistance may not be where you think it is
- Information sharing between industry participants and law enforcement agencies will be key to combatting this type of crime



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## Data Security Regulatory Activity is Increasing

- In 2013, President Obama issued an Executive order directing the federal government to take steps to protect the nation's critical infrastructure from cyber threats
- In 2015, the FFIEC issued its cybersecurity assessment tool to aid financial institutions in evaluating their cyber risk and risk management capabilities
- The focus in the Senate has been on the "Cybersecurity Information Sharing Act of 2015"
- A number of individual states are amending security breach notice statutes
- State attorneys general continue to play a significant role on data security issues and breach incidents
  - Specifically, a large number are actively investigating various breach incidents that have occurred in the past two years



# Day 2 – Breakout Sessions

Lester Chan – Director, North America Merchant Security



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## Malware POS Session Recap

How POS Malware continues to proliferate and evolve with Palo Alto Networks

- Malware continues to play a significant role in payment card breaches
- Four different malware types: file scraper, network sniffer, keylogger, and memory scraper
- Malware families are customized for different applications resulting in variants
- Coordinate with cyber threat intelligence to proactively monitor for malware
- Devalue payment card data and have an incident response plan
- Know and understand the warning signs and your environment

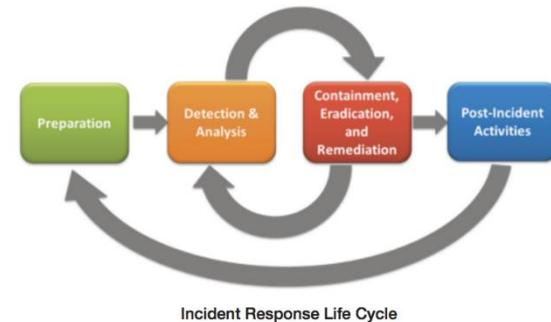


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## Incident Response Planning Session Recap

Incident response planning from Facebook

- Hire smart people and provide them tools to do their job
- Security incident plans should be small and flexible
- Sometimes only a limited amount of information is available
- Security incidents should be run and managed by people with experience
- Incident commander who is in charge and provide updates to management
- Red teams/blue teams are useful and don't limit their access



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## Network Segmentation & Zero Trust Session Recap

Benefits of next-gen firewalls and the Zero Trust principle with Palo Alto Networks

- Today's networks are extremely challenging with various devices and data
- Controlling the conversations and conversants make it easier to control security through policy
- Payment card data and devices such as iPads can easily be controlled on the network using next-gen firewalls
- Adding a Zero Trust policy can help organizations secure internal and external network connections



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## Securing the Payment Value Chain Session Recap

### Discussing the hyperconnected value chain

- As the payment industry continues to evolve, the payment value chain is becoming more and more decentralized and it is no longer a simple 4 party model
- Hyper connectivity can increase complexity of managing risks and it is critical to ensure that all parties are accountable
- Breaches involving integrators and resellers are increasing
  - PCI SSC Qualified Integrator and Reseller (QIR) program provides training on secure POS system installation
  - MercuryPay recently partnered with Visa, Retail Solutions Providers Association (RSPA), and PCI Security Standards Council (PCI SSC) to offer training to its providers
- The industry must work together to educate small merchants and offer them simple and affordable solutions

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## Global Brand Protection – Global Acquirer Risk

### Managing Online Pharmaceutical and Nutraceutical Merchants

- Acquirers must attain the pharmacy's valid and verified licenses for each jurisdiction where the merchant offers to ship prescription medication
- Be wary of merchants with wholesale pharmacy licenses
- Interpol will be heavily focused on preventing the illegal sale of medical devices
- It has become increasingly simple to create websites that look legitimate

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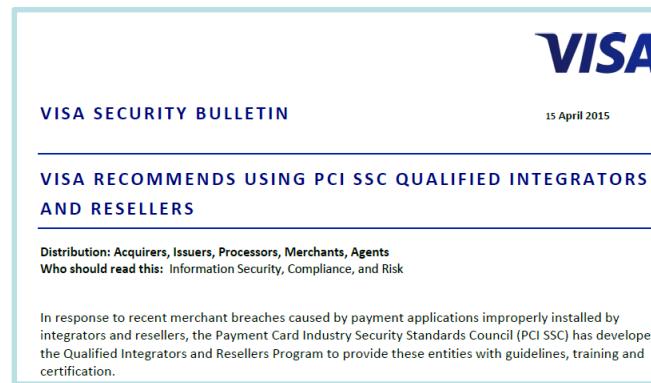
### Acquirer Operational Risk Reviews

- Have a control environment in place to validate compliance with Global Acquirer Risk Standards (GARS)
- Ensure proper oversight of Agents
- When it comes to questionable merchants: Remediate or Terminate, DO NOT facilitate.

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## Third Party Agent Program Updates

- Criminals are sophisticated, but they are using the same attack vectors
- Post EMV, criminals may target aggregation points or entities with large amounts of data such as payment facilitators, processors, and gateways
- The Visa Registry of Service Providers (Global Registry) includes entities who meet Visa program rules and are PCI DSS validated, as applicable



Are you  
on the  
**list?**

Visa Global Registry of Service Providers

# Upcoming Events and Resources

Upcoming Webinars – Under Merchant Resources/Training on [www.visa.com](http://www.visa.com)

- The Importance of Containment and Remediation of Compromised Payment Processing Environments, September 2, 2015

Visa Online Merchant Tool Kit provides helpful information to make a seamless EMV transition

- Streamline your chip migration – [www.VisaChip.com/businesstoolkit](http://www.VisaChip.com/businesstoolkit)

Visa Data Security Website – [www.visa.com/cisp](http://www.visa.com/cisp)

- Alerts, Bulletins
- Best Practices, White Papers
- Webinars

PCI Security Standards Council Website – [www.pcissc.org](http://www.pcissc.org)

- Data Security Standards, QIR Listing
- Fact Sheets –Mobile Payments Acceptance, Tokenization, and many more...