

PCI Security Standards Council

Guiding open standards for global payment card security

Jeremy King, European Director July 2012

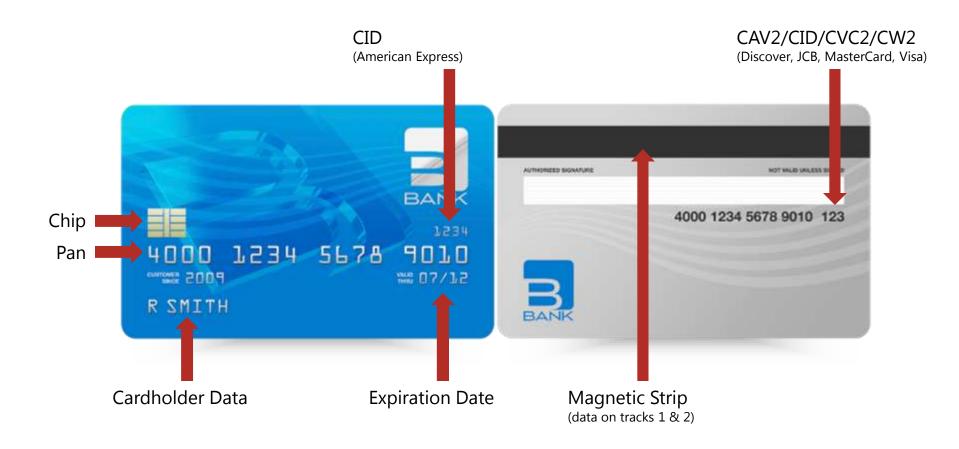




Agenda

Your Card Data is a Gold Mine for Criminals

Types of Data on a Payment Card



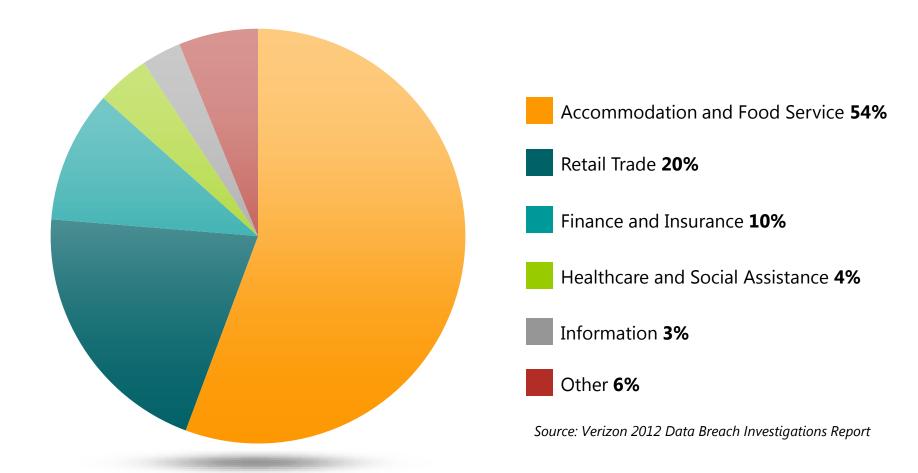


They Steal Your Data ... and They Sell It

	Country	Balance	Price
Bank of America (BOA)	USA		Sold
Amsouth Bank	USA	\$16,040	€700
Washington Mutual Bank (WAMU)	USA	\$14,400	€600
Washington Mutual Bank (WAMU)	USA, Multi-Currency Acct.	\$7,950 + £2,612	€500
Washington Mutual Bank (WAMU)	USA		Sold
MBNA America Bank	USA	\$22,003	€1,500
BANCO BRADESCO S.A.	Brazil, Dollar Account	\$13,451	€650
CITIBANK	UK, GBP Account	£10,044	€850
NatWest	UK, GBP Account	£12,000	€1000
BNP Paribas Bank	France, Euro Account	€30,792	€2200
Caja de Ahorros de Galocia	Spain, Euro Account	€23,200	€1200
Caja de Ahorros de Galocia	Spain, Euro Account	€7,846	€500
Banc Sabadell	Spain, Euro Account	€25,663	€1450



Business Sectors With the Most Breaches



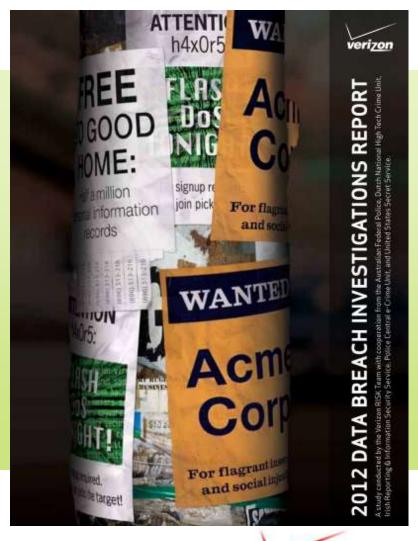


Organizations Ignored PCI ... and Were Breached

96% of those breached were not PCI compliant as of their last assessment (or were never assessed/validated)

Top attack methods used to breach organizations:

- 81% of incidents involved hacking
- 69% incorporated malware
- 10% involved physical attack







Top Mistakes By Those Breached

Revealed by Forensic Audits

Weak or Blank Password for an Administrative System Account

Sensitive Information Transmitted Unencrypted on the Wire

MS-SQL Server with Weak or No Credentials for Administrative Account

Address Resolution Protocol (ARP)

Cache Poisoning

Wireless Clients Probe for ESSID's from Stored Profiles When Not Connected

Continued Use of Wired Equivalent Privacy (WEP) Encryption

Client Sends LAN Manager (LM) Response for NTLM Authentication

Misconfigured Firewall Rules Permit
Access to Internal Resources



EMV Environments Also Have Risks



Lost & Stolen Card Fraud now at its lowest level since the industry collation of fraud losses began in 1991 EMV by itself does not protect the confidentiality of, or inappropriate access to sensitive authentication data and/or cardholder data



Compliance Is Good for Business

Cost of Complying

- Upgrading payment systems and security
- Verifying compliance via assessment
- Sustaining compliance
- May cost as little as \$150 to \$2,500 per IP address per year for scans for smaller merchants. Can cost millions for complex or older systems¹

Cost of a Breach

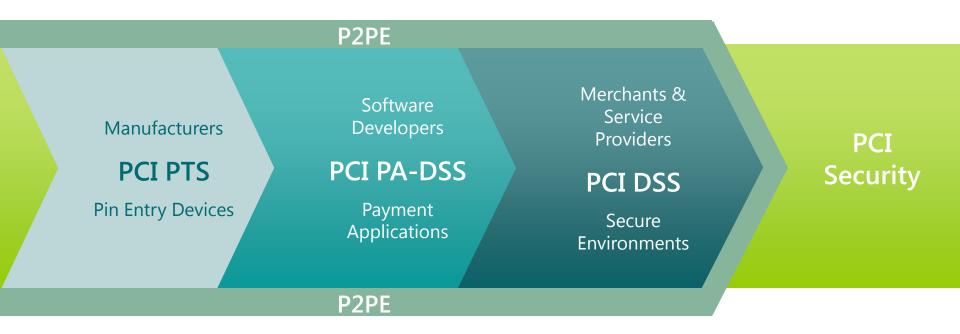
- Average cost per compromised record is \$214
- Average cost of a breach event is \$7.2 million
- Non-compliance cost is an average of 2.65 times the cost of compliance
- Also: business disruption, reduced productivity, fees, penalties, other legal and non-legal settlement costs²

Sources: (1) PCI Compliance Cost Analysis: A Justified Expense." A joint analysis conducted by Solidcore Systems, Emagined Security and Fortrex. (2) Ponemon Institute.



PCI Security Standards

Help You Protect Cardholder Data



Ecosystem of payment devices, applications, infrastructure and users



About the PCI Council

Open, global forum Founded 2006



Guiding open standards for payment card security

- Develop
- Manage process
- Educate
- Foster Awareness





Global Representation, 600+ Members





The PCI Data Security Standard

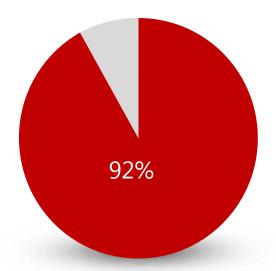
Six Goals	Twelve Requirements	
Build and Maintain a Secure Network	 Install and maintain a firewall configuration to protect cardholder data Do not use vendor-supplied defaults for system passwords and other security parameters 	
Protect Cardholder Data	3. Protect stored cardholder data4. Encrypt transmission of cardholder data across open, public networks	
Maintain a Vulnerability Management Program	5. Use and regularly update anti-virus software or programs6. Develop and maintain secure systems and applications	
Implement Strong Access Control Measures	7. Restrict access to cardholder data by business need-to-know8. Assign a unique ID to each person with computer access9. Restrict physical access to cardholder data	
Regularly Monitor and Test Networks	10. Track and monitor all access to network resources and cardholder data11. Regularly test security systems and processes	
Maintain an Information Security Policy	12. Maintain a policy that addresses information security for employees and contractors	

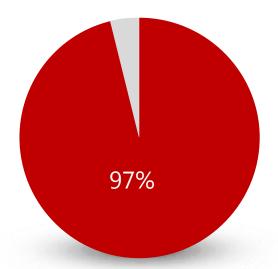


PCI Standards Help Secure Your Data



97% were avoidable through simple or intermediate controls





Source: Verizon 2012 Data Breach Investigations Report



You Drive the Open PCI Standards Lifecycle

Implementation Feedback

Formal Feedback

Draft Revisions Feedback



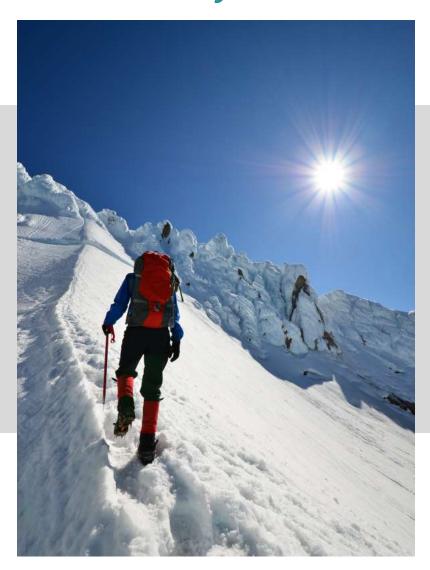


Your Feedback Shapes the Standards

1	Feedback reviewed and categorized (April '12 – August '12)		
2	Feedback shared with PCI community (August – September '12)		
3	Feedback presented at 2012 Community Meetings (September '12 – October '12)		
4	Revisions drafted for PCI DSS and PA-DSS (November '12 – April '13)		
5	Final Review Period (May '13 – July '13)		
6	Standards Published (October '13)		



PCI Security is a Journey...



...but reaching the summit holds immense value for your organization

96% of breach victims that are subject to PCI DSS had not achieved compliance

Source: Verizon 2012 Data Breach Investigations Report



Use the Standards to Make Security Part of Your DNA





Focused Guidance on Payment Technology







P2PE



Virtualization



Wireless



Tokenization



Telephone-based Payment Card Data



EMV



Even EMV Security Needs PCI



EMV



- Council released guidance on EMV within an overall data security framework defined by the PCI Data Security Standard
- Guidance highlights benefits both systems bring to tackling fraud
- EMV does help prevent some types of fraud, but for a merchant to secure payment data they must also adopt all elements of the PCI DSS
- In today's EMV market, PCI DSS must be fully implemented to protect cardholder data



Point-to-Point Encryption



2012 Target Deliverables

General Requirements

- P2PE Hardware encryption and hardware decryption
- P2PE "Hybrid" Hardware encryption and hardware decryption, with transaction keys in software at decryption
- P2PE next phase

Point-to-Point Encryption

- P2PE Assessor Qualification Requirements released
- Testing Procedures, Program Guide, SAQ and P2PE Assessor training now available
- Solutions listing for Fall 2012

Sign up for P2PE Training today:

administration@pcisecuritystandards.org.



Mobile Update



Deliverable

Guidance and Best Practices

- Mobile Transactions Using SCR & P2PE for Merchants
- Mobile Acceptance Best Practices

Mobile

- Key areas of focus include:
 - Devices
 - Applications
 - Service Providers



Mobile Update



Accepting Mobile Payment Acceptance Security Fact Sheet for Merchants

- Understand PCI DSS responsibilities in mobile environments
- Leverage benefits of P2PE program
- Choose a mobile payment acceptance solution that complements the merchant's PCI DSS responsibilities



2012 Training Highlights





Make 2012 the Year of Data Security Training

PCI SSC Internal
Security
Assessor (ISA) Program
Helps security
professionals improve
their organizations'
understanding of PCI
DSS and validate and
maintain ongoing
compliance



PCI Awareness Training

Offers general PCI training across your business to ensure a universal understanding of PCI compliance

PCI Awareness Training online anytime!

Check out our Training Webinar!

2012 Training Schedule

ISA Training: Boston, MA, USA 20-21 August **QSA Training:** Boston, MA, USA on 22-23 August **ISA Training:** Lake Buena Vista, FL, USA on 6 – 7 September **PA-QSA Training:** Lake Buena Vista, FL, USA on 8 – 9 September **QSA Training:** Lake Buena Vista, FL, USA on 10 – 11 September **ISA Training:** Lake Buena Vista, FL, USA on 10 – 11 September

P2PE Training: Lake Buena Vista, FL, USA on 15 – 16 September





New Certification and Training Opportunity Coming Soon!

Become PCI Certified as a Qualified Integrator and Reseller (QIR) – earn PCI credentials and exclusive listing on the PCI SSC website!

What is the Qualified Integrators and Resellers (QIR) Program? PCI SSC certification program to educate, qualify, and train organizations involved in the implementation, configuration, and/or support of a PA-DSS validated payment application on behalf of a merchant.

Who can participate? Any eligible company involved in implementing and configuring PA-DSS validated applications into merchant environments, including both brick-and-mortar and e-commerce environments.

What are the benefits?

- Achieve industry-recognized certification
- Be included on merchants' go-to global list of certified integrators and reseller
- Receive specialized training from PCI SSC experts on guidelines for implementing and maintaining payment applications
- Earn CPE credits

Online training will begin in fall 2012.

For more details, visit <u>www.pcisecuritystandards.org/training/qir_training.php</u>.

Please contact **QIR@pcisecuritystandards.org** with any questions.

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Agenda

Be Involved – Contribute Your Expertise!





Special Interest Groups (SIGs) Are For You



sigs@pcisecuritystandards.org

Email today to join!



2013 SIG Proposal & Election Timeline

June 1, 2012

Proposal Period Open

July 31, 2012

Proposal Period Close

The Special Interest Groups (SIGs) leverage the valuable business and technical experiences of PCI SSC Participating Organizations to collaborate with the Council on any supporting guidance or special projects relating to the PCI Security Standards.

Submit your 2013 SIG proposal today!

- •After the close of the SIG proposal period a shortlist of proposals will be drawn up by PCI SSC and those selected notified.
- •Presentations from POs and assessors on shortlisted SIG proposals will be given at the North American and European Community Meetings.
- •Electronic vote on which proposals to move ahead with will follow in November.

NEW for 2013: Online Proposal Form now available at https://www.pcisecuritystandards.org/site/sig-2012.php



2012 PCI Community Meetings

Orlando, Florida, USA

September 12-14, 2012



Dublin, Ireland

October 22-24, 2012



Register today:

http://www.regonline.com/pcissc cm orlando2012 http://www.regonline.com/pcissc cm dublin2012



Summary

Learn!

Take advantage of the Council's resources and guidance, and training courses



We want your feedback on the Standards

Join!

Become a Participating Organization today

Participate!

Get involved in a Special Interest Group



Questions?



Please visit our website at www.pcisecuritystandards.org

