Securing the Future of Payments





What does PCI Security Standards Council Produce? Standards, Best Practices & Services



Payment Equipment



Payment Software



Merchant & Payment Service Provider **Environments**

Validation & Qualification – Equipment, Service Providers, Assessors, Investigators

<u>Training</u> – Assessors, Acquirers, Integrators

Growing Cybercrime

58% of Brazil's 200 million citizens are connected to the internet.

The number of cyberattacks grew by **197%** in 2014, and online banking fraud spiked by **40** percent.

Cybercrime causes **95%** of losses for Brazilian banks.

Growing Diversity of Attacks on Payments

- Criminal techniques are becoming less detectable
- POS Malware Growing at Staggering Rate
- 'Low-tech' attacks circumventing confidentiality



Future Threat Landscape

Increasing card not present fraud

Contactless payments vulnerabilities

Account takeover

Extortion

E-commerce growth rate at 25%, with credit cards handling 60% of digital transactions in Brazil.

Card not present fraud already accounts for 80% of fraud in Brazil.

User base for mobile payments in Brazil is predicted to reach 80 million by 2018.



Ultimate Goal



PCD Security Standards (

PCI DSS is the Foundation

- ✓ Keep the bad guys out
- ✓ Set up your systems properly
- \checkmark If you must have data then protect it
- \checkmark If you must send data then encrypt it
- Protect yourself against malware and other attacks
- Build your software properly and securely
- ✓ Keep access to the card data to a minimum

- Make sure people are who they say they are
- ✓ Physical security is just as important
- \checkmark Track who goes where and what they do
- Test and check everything is working correctly
- Make sure everyone knows what is required

PCI DSS 3.2 Update – April 2016

Market drivers:

Threat and Payment Landscape

SSL/TLS Updates to v3.1

Key changes:

Multi-Factor Authentication

Service Provider Updates

SSL/TLS Sunset Dates

The Council updates PCI Standards to continue to protect against existing exploits, while also addressing new attacks on cardholder data.



Protecting Internet Payments

Stolen credit card information is one of the main concerns of internet payment users in Brazil.

Man-in-the middle attacks is one of biggest threats during online transactions.

Small e-commerce merchants in Brazil are highly vulnerable to attack.

- SSL/early TLS migration
- Development of safe ecommerce practices
- Evaluation of PCI DSS requirements for specific environments
- Simplified guidance for small e-commerce merchants



Best Practices for Safe e-Commerce

2016 Special Interest Group project to provide guidance for merchants, third parties and assessors

Guidance will be update to 2012 Special Interest Group information supplement on e-commerce

Topics covered will include use of encryption and digital certificates and questions to ask e-commerce solution providers





PCI Point-to-Point Encryption (P2PE) v2

- Consolidated the P2PE version 1 standards
- New function-specific domains to support P2PE component providers
- Introduced merchant-managed solutions (MMS)



P2PE for Merchants

PCI Point-to-Point Encryption (P2PE) Solutions for Merchants





Protecting your customers and your corporate brand continue to be the biggest challenges faced by IT executives. To meet that challenge, we've worked with a P2PE service provider to adopt a PCIvalidated P2PE payment solution across all our stores in a simplified and cost effective way.

Bill Bolton, VP of Information Technology, The HoneyBaked Ham Co.

- Lab-tested products and providers guarantee the strongest encryption protections
- Simplifies the PCI DSS compliance process

How Criminals Hack Phones



Cellular (e.g., Stingray or Cloning)

Wi-Fi

Proximity Capture

Malware

Side-channel/Data Leakage



Protecting the MPOS



Tokenization







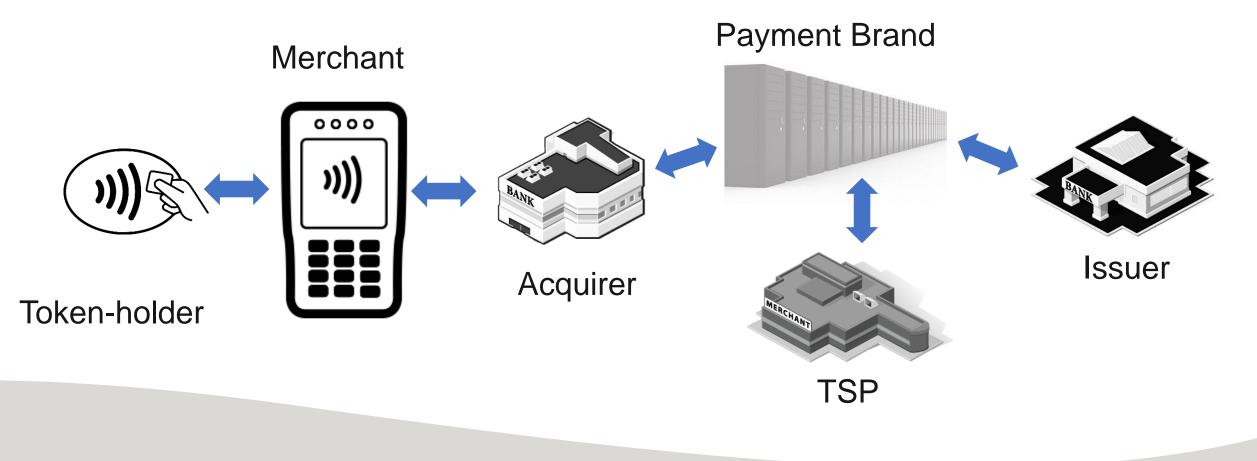
Samsung Pay



Mobile Wallets

New Token Service Provider Standard

Released new standard December 2015 to address Token Service Provider environments



Securing the Future - Mobile

Continue evaluation of PIN-entry use for mobile consumer devices
 Complete new requirements for over-the-air provisioning
 Complete support documents for Token Service Provider standard
 FAQs and promotion of payment tokens and P2PE for use in mobile payments



DOCUMENT LIBRARY

The Document Library includes a framework of specifications, tools, measurements and support resources to help organizations ensure the safe handling of cardholder information at every step.

Featured Documents

SAQ Documents

Self-validation tool for merchants and service providers.

View Documents ()

P2PE Solution Requirements and Testing Procedures

View Document 🕥

Information Supplement Migrating from SSL and Early TLS

View Document (\mathbf{b})

Check Our Document Library for New Resources

www.pcisecuritystandards.org

Portuguese Translations

- Now available!

 PCI DSS Version 3.2 Summary of Changes
 PCI DSS Version 3.2 Self-Assessment Questionnaires (SAQ)

 Available at: www.pcisecuritystandards.org/document_library
 Translation partners needed!
 - Contribute translations for PCI DSS 3.2, PA-DSS 3.2 and supporting documents

PCI Guidance and Best Practices

Defending Against Phishing & Social Engineering Attacks A Resource Guide from the PCI Security Standards Council

Hackers use phishing and other social engineering methods to target organisations with legitimate-looking emails and social media messages that trick users into providing confidential data, such as credit card number, porial security number, account number or password



ninals install equipment at merchan

iosks that captures the information from

locations, on point-of-sale (POS) devices

automated teller machines (ATM), and

magnetic strine

serious cyberhacks customers at risk.

vigilance, busine hese attacks.

A Resource Guide from the PCI Security Standards Council THE COS

traudulant numbers

Handheld skimmers used by

5

verview of Rest

© 2015 PCI Security Standards Council LLC.

Skimming

skimming is copying payment card number

hon money from bank accounts and mak

and using them to make counterfeit cards

onal identification numbers (PIN)





IAPAN GERMAN

It Souther 2014 Global Report of

Hackers target organisati confidential data that car



TRICK Y



corrupt staff are very small, within the terminal are fitting in the palm of a hand. invisible, and neither the use a combination of attack Despite their size, these merchant staff nor the scenarios. In this attack we se devices can store a significant cardholder will know that a an overlay has been placed on amount of cardholder data. the ATM's card reader to capture card was skimmed the card data, and an additional overlay was added to the plastic that allowed for a hi camera to capture the PIN. N-DEPTH BACKGROUND MATERIAL PCI PCI

Best Practices fo

All About Skimmers

e.com 2: Source: Alle Group 3: Source: Mercator Advisory Group 4: Source: FICC

ATM SKIMMER Skimming is the #1 ATM crime Skimming devices hidden Criminals may not use a sinci globally making up 92% of all attack against a device, but can attacks at the ATM" From Jan-Apr 2015, the number of attacks on debit cards used at ATMs reached the highest level for

ATM Security Guidelin

Skimming is a Scam

FACTS & FIGURES

The estimated global cost of skimming' -

The average loss from skimming crime²

Skimming-related counterfeit card fraud is the leading type of third-party card fraud^a

that period in at least 20 years*

PCI Security Standards Council

Safeguard Against Skimming

The ATM Scam



- Skimming prevention
- ATM security guidelines
- Defending against phishing attacks
- Working with third parties
- Building a security awareness program
- Accepting payments with a mobile phone
- PCI DSS compliance in the cloud

Available at: www.pcisecuritystandards.org

Acquirer Resources

Acquirer Training

- For acquirers and processors who don't perform assessments themselves, but need to understand the compliance process for their merchant clients
- Any acquirer can benefit no previous PCI knowledge is required
- Eight training modules cover all of the relevant information about PCI DSS and related programs
- Available as instructor-led and eLearning

Acquirer Checklist

- Optional
- Developed by Assessor Quality
 Management
- Basic version
- Detailed version

www.pcisecuritystandards.org/program_training_and_qualification

Training and Education



Personal PCI training is essential to keep on top of emerging threats PCI training by the Council is the most effective, targeted way to accelerate mastery and stay current Validation proves your value to your employer and sets you apart from so-called "experts"

To learn more, visit: www.pcisecuritystandards.org/program_training_and_qualification

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PCI PO Discount Code: Brazil16

Join us: www.pcisecuritystandards.org/get_involved/participating_organizations

Participating Organization Benefits

- Advance review of standards and supporting materials before release, with the opportunity to provide feedback
- Complimentary attendance at annual Community Meetings hosted by the Council
- Substantial training discounts; courses are offered in instructor-led and eLearning formats
- Nominate and vote for representatives to stand for election to the Council's **Board of Advisors**
- Drive the **Special Interest Groups (SIGs)** that provide the Council with understanding and guidance on particular topics or technologies

721

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Participating

Organizations

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Mark Your Calendar 2016 Community Meetings



North America Las Vegas, NV, USA 20 - 22 September



Europe Edinburgh, Scotland 18 - 20 October



Asia-Pacific Singapore 16 - 17 November

Please visit our website at www.pcisecuritystandards.org

