Protect Your Business: PCI Resources for Securing Payment Data

Presenter:

Elizabeth Terry

Community Engagement Manager

PCI Security Standards Council



Agenda

- Housekeeping
- Presenters
- About Conexxus
- Presentation
- Q & A



Housekeeping

This webinar is being recorded and will be made available in approximately 30 days.

- YouTube (youtube.com/conexxusonline)
- Website Link (conexxus.org)

Slide Deck

Survey Link – Presentation provided at end

Participants

- Ask questions via webinar interface
- Please, no vendor specific questions

Email: info@conexxus.org



Presenters

Conexxus Host

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Moderator

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Speaker

Elizabeth Terry

PCI Security Standards Council

Community Engagement Manager



About Conexxus

We are an independent, non-profit, member driven

technology organization

- We set standards...
 - Data exchange
 - Security
 - Mobile commerce
- We provide vision
 - Identify emerging tech/trends
- We advocate for our industry
 - Technology is policy





2019 Conexxus Webinar Schedule

Month/Date	Webinar Title	Speaker	Company
January 24, 2019	Managed Detection and Response	Tom Callahan Mark Carl	ControlScan
February 28, 2019	PCI DSS for Petro Merchants	Elizabeth Terry	PCISSC
March 2019	Protecting Your Stores and Main Office from Data Security & Ransomware Attacks	Dirk Heinen	Acumera
April 2019	Don't get Phished! Train Your Employees to Avoid Ransomware	Geoffrey Vaughan Ed Adams	Security Innovation
May 2019	Firewall compliance! The basics, the benefits, and the security Simon Gamble Make		Mako Networks
June 2019	TBD	David Ezell lan Jacobs	Conexxus W3C



2019 Conexxus Webinar Schedule

Month/Date	Webinar Title	Speaker	Company
July 2019	Skimming	TBD	TBD
August 2019	TBD	TBD	TBD
September 2019	Updated Data Science Presentation	Ashwin Swamy Thomas Duncan	Omega ATC Omega ATC
November 2019	Outdoor EMV	Brian Russell Linda Toth	Verifone Conexxus
December 2019	TBD	TBD	TBD





Conexxus thanks our 2018 Annual Diamond Sponsors!



















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Elizabeth Terry

Community Engagement Manager

PCLSSC



PCI Security Standards Council

We Help Secure Payment Data Global, cross-industry effort to increase payment security

Industry-driven, flexible and effective standards and programs

Helping businesses detect, mitigate and prevent criminal attacks and breaches



PCI Security Standards and Programs

Standards, Training and Certification Programs, Educational Resources









Merchant & Payment Service Provider

Environments

Certification – Equipment, Service Providers, Assessors, Investigators

<u>Training</u> – Assessors, Investigators



Small Merchant Resources





The global impact of huge cyber security events such as the WannaCry ransomware epidemic has taken the threat from cybercrime to another level. Banks and other major businesses are now targeted on a scale not seen before.

Leading Causes of Data Breaches



Weak and default passwords

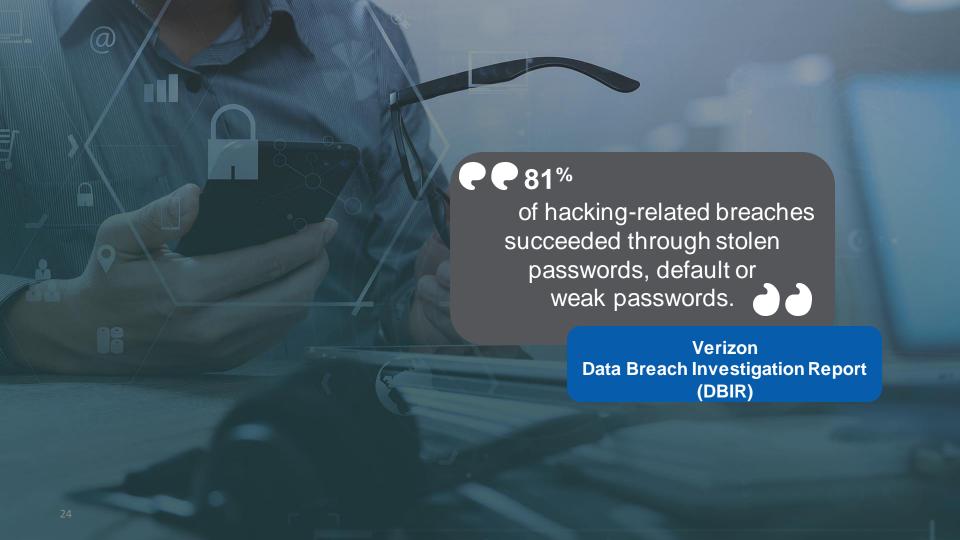


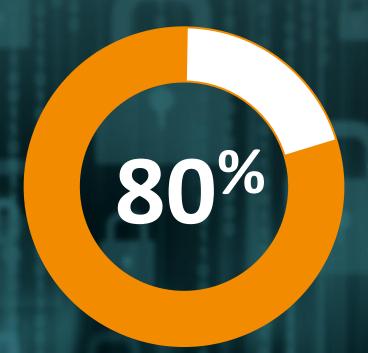
Unpatched software



Insecure Remote Access



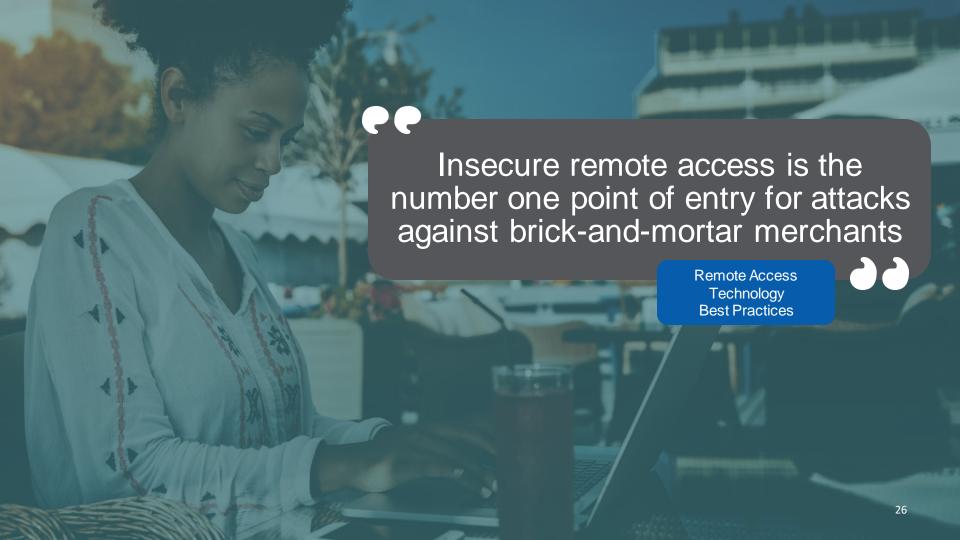




Of the majority of hacking attacks could be prevented by strengthening passwords and installing patches.

Verizon Data Breach Investigation Report (DBIR)





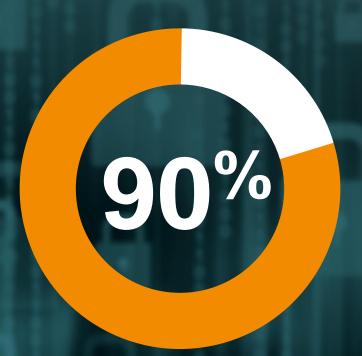


"At 40%, payment card data is the #1 type of data targeted in a breach."

2018 Trustwave Global Security Report

"The chances of being struck by lightning this year are 1 in 960,000. When it comes to experiencing a data breach, the odds are as high as 1 in 4."

2017 Ponemon Cost of Data Breach Study



of all accommodation breaches were POS breaches.

2018 Verizon Data Breach Investigations Report (DBIR)

Small Merchant Resources

PCISSC.org/Merchants



GUIDE TO SAFE PAYMENTS

Simple guidance for understanding the risk to small business, security basics to protect against payment data theft, and where to go for help.



COMMON PAYMENT SYSTEMS

Real-life visuals to help identify what type of payment system a small business uses, the kinds of risks associated with their system, and actions they can take to protect it.



How do you protect your business?

The good news is, you can start protecting your business today with these security basics:



Use strong passwords and change default ones

Cost ①
Ease





Protect your card data and only store what you need

Cost
Ease

Risk Mitigation



Inspect payment terminals for tampering

Cost

Ease

Risk Mitigation



Use trusted business partners and know how to contact them

Cost

Ease

Risk Mitigation



Install patches from your vendors

Cost

Ease

FF

Risk Mitigation



Protect in-house access to your card data

Cost

Ease

Risk Mitigation



Don't give hackers easy access to your systems

Cost Cost Risk Mitigation



Use anti-virus software

Cost

Ease

Risk Mitigation



Scan for vulnerabilities and fix issues



Use secure payment terminals and solutions

Cost Cost

Ease

Risk Mitigation Cost

Cos



Protect your business from the Internet

Cost

Ease

FFF

Risk Mitigation



For the best protection, make your data useless to criminals

Cost COO

Ease FFF

Risk Mitigation COO

These security basics are organized from easiest and least costly to implement to those that are more complex and costly to implement. The amount of risk reduction that each provides to small merchants is also indicated in the "Risk Mitigation" column.



Small Merchant Resources

PCISSC.org/Merchants



QUESTIONS TO ASK YOUR VENDORS

A list of the common vendors small business rely on and specific questions to ask them to make sure they are protecting customer payment data.



GLOSSARY OF PAYMENT AND INFORMATION SECURITY TERMS

Simplified glossary, based on PCI DSS Glossary and with extra definitions specific to small merchants.



What is a "Small Merchant"?

PCISSC.org/Merchants



- Typically an independently-owned and operated business
- With a single location or a few locations
- With limited or no IT budget
- Often with no IT personnel

Whether a small merchant is required to validate PCI compliance is determined by the payment brands or acquirer



Current Small Merchant Materials



Small Merchant materials released in 2016 provided:

- Education and awareness
- Simple security steps to address critical risks

Small Merchant materials updated in 2018 to provide:

- Clearer e-commerce guidance
- More types of payment diagrams for small merchants
- New, easy-to-understand DSE Evaluation Tool to help with validation



PCI Data Security Essentials Evaluation Tool

PCISSC.org/SmallMerchantTool

PCI DATA SECURITY ESSENTIALS EVALUATION TOOL FOR SMALL MERCHANTS



The PCI Data Security Essentials Resources for Small Merchants provides security basics to protect against payment data theft and to help small merchants simplify their security and reduce their risk. The Data Security Essentials Evaluation Tool provides an alternative for eligible small merchants to learn more about their security posture and perform a preliminary evaluation to understand how they are meeting these security basics for safe payments.

Each merchant's acquirer (merchant bank), in coordination with the applicable payment brands, determines which merchants are eligible to use Data Security Evaluation forms. We encourage small merchants to review Data Security Essentials Resources for Small Merchants, talk to your acquirers for instructions on how to complete and submit a Data Security Essentials evaluation, and start your path to better security and simpler validation today





PCI Data Security Essentials Evaluation Tool

PCISSC.org/SmallMerchantTool

Security Practice	How have you implemented this practice?	Additional Information as Needed	
A. Use strong passwords and change default ones			
Passwords are vital for security of your payment systems and card data. there is any suspicion of misuse. This includes all passwords you and you to log into or connect to your payment systems, computers, and other e "password" or "admin"). Hackers easily guess these out-of-the-box pass	ur staff (including permanent full-time and part-time wo equipment. In addition, much equipment comes with de	orkers, contractors, consultants, etc.) use efault passwords "out of the box" (like	
See "It's time to change your password" at www.PCISecurityStandards	s.org.		
 You and your staff change passwords for computer access regularly, at least every 90 days. 	☐ I do this consistently. ☐ I do this sometimes. ☐ This is N/A to my business environment (explain). ☐ I do not know / I do not understand. ☐ I do not do this (explain).	Fruit	
 You and your staff make all passwords for computer access in your business unique and hard to guess: 7 or more characters and a combination of upper- and lower-case letters, numbers, and symbols. Consider using a passphrase as your password; you can make it personal and easy for you to remember. 	☐ I do this consistently. ☐ I do this sometimes. ☐ This is N/A to my business environment (explain). ☐ I do not know / I do not understand. ☐ I do not do this (explain).	Evaluation Form 4 Payment terminal and electronic cash register share non-card data Payments sent via Internet by payment terminal	
 Immediately, you change out-of-the-box default passwords from your equipment and/or software suppliers. If you do not know where these passwords are or how to change them, find out from your payment system vendor or supplier, the individual who set up your payment system, or your merchant bank. 	☐ I do this consistently. ☐ I do this sometimes. ☐ This is N/A to my business environment (explain). ☐ I do not know / I do not understand. ☐ I do not do this (explain).	terminal series by payment	



Help Us Help Them



Share these resources with your small merchant customers



Let small merchants know the simple things they can do today



Help small
merchants
understand and
address risks with
remote access
and default



Use secure remote access into small merchant systems and help them manage it

passwords





PCI Resources for Securing Payment Data



PEOPLE

Hire qualified and trusted partners and train your staff to understand payment data security essentials.

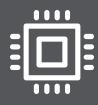
Learn more about training and qualified security professionals



PROCESS

Put the right policies and practices in place to make payment security a priority every day.

Learn more about the PCI Data Security Standard (PCI DSS)



TECHNOLOGY

Make sure you are using the right technology and implementing it correctly to get the best security and business benefits.

Learn more about secure technology



People: Qualified Integrator and Reseller™



What Types of Organizations Employ QIRs?

- Certified POS Technicians
- Merchants
 - Retail
 - IT
 - Hospitality
 - Healthcare
 - Restaurant
- Financial Institutions
- Processors
- Service Providers





Who Becomes a QIR?





What Do QIRs Actually Do?

- Ensure installation is implemented in a manner that addresses high-priority risks
- Protect confidential and sensitive information
- Support investigations by PCI Forensic Investigators
- Ongoing support/maintenance is in accordance with both application vendor guidance and PCI DSS





Key Security Controls for QIRs









QIR Value

- Recognition of criticality of security controls applied during installation
- Merchant trust in the quality, reliability and consistency of work
- Part of larger community of security professionals





QIR Value

- Industry recognized credential that follows the individual
- Public recognition of professional achievement
- Competitive career advantage





People: PCI Professionals



What Types of Organizations Employ PCIPs?

- Merchants
 - Retail
 - IT &Telecom
 - Hospitality
 - Finance
 - Food
- Financial Institutions
- Acquirers
- Service Providers





Who Becomes a PCIP?





What Do PCIPs Actually Do?

- Write/review PCI policies and procedures
- Owning and managing PCI DSS controls
- Work with ISA/QSA
- Advise internally on PCI projects
- Train staff on PCI DSS
- Input and maintenance of PCI processes





PCIP Value

- PCI DSS subject matter experts
- Confidence in interpreting requirements
- Ability to interact with other PCI entities
- PCI compliance often extends across many parts of an organization...





PCIP Value

- Become part of the PCIP Community
- Industry recognized credential that follows the individual
- Public recognition of professional achievement
- Competitive career advantage





Case Studies

Instructor-led PCIP training classes available

VIEW SCHEDULE



PCI PROFESSIONAL (PCIP)™ QUALIFICATION

The Payment Card Industry Professional is an individual, entry-level qualification in payment security information and provides you with the tools to build a secure payment environment and help your organization achieve PCI compilance. This renewable career qualification is not affected by changes in employment assignments and stays in effect as long as the individual continues to meet requirements. This three-year credential also provides a great foundation for other PCI qualifications.















DOWNLOAD COURSE DESCRIPTION

VIEW BIT9 CASE STUDY >

VIEW EXCENTUS CASE STUDY >

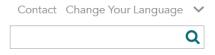
- PCI SSC website under "Training and Qualification"
- Interested? Email us at PCIP@pcisecuritystandards.org



Other PCI Resources

https://www.pcisecuritystandards.org/document_library





Get Started V Assessors & Solutions V Document Library Training & Qualification V About Us V Get Involved V Newsroom V FAQs

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.



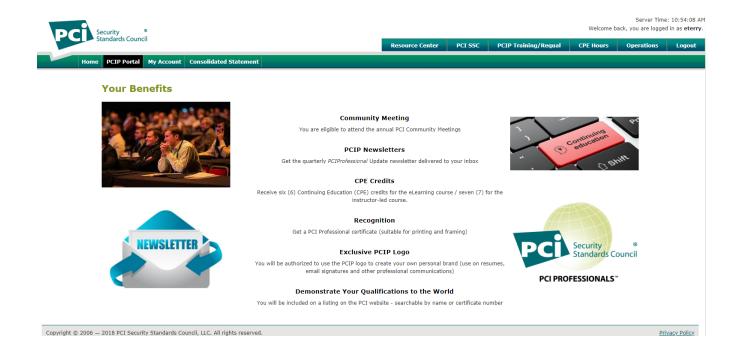
PCI Guidance and Best Practices



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



PCI Resource Center





Save the Date for 2019 Events



India

13 March New Delhi, India



Latin America

15 August São Paulo, Brazil



North America

17 – 19 September Vancouver, BC, Canada



Europe

22 – 24 October Dublin, Ireland



Asia-Pacific

20 – 21 November Melbourne, Australia



events.pcisecuritystandards.org



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