

PCI made easy for SMBs

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As required by SEC rules, we have provided a reconciliation of the non-GAAP financial measures included in this presentation to the most directly comparable GAAP measures in materials on our website at www.verizon.com/about/investors



Welcome !

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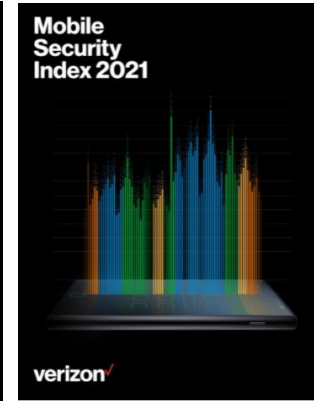
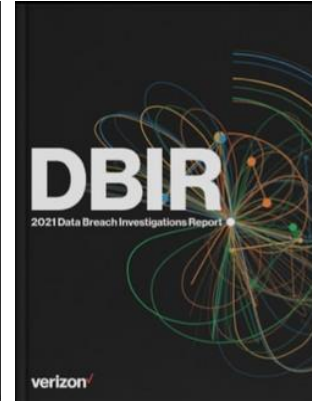
QSA since 2009
PCI 3DS QSA since 2020
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Thought Leadership



20+

Years of Security Experience

60+

QSAs worldwide

600+

Security consultants in 30 countries

Smaller businesses are not immune to data breaches.

93%

Quoting the Verizon DBIR 2021, breaches continue to be mostly due to financially motivated actors (93%) in Small and Medium Business.

Top Patterns

System Intrusion, Miscellaneous Errors and Basic Web Application Attacks represent 80% of breaches

Source : Verizon 2021 Data Breach Investigations Report

44%

of breaches involved credential data, followed by personal data, payment information, ...

57%

of breaches involved an External actor, 44% an Internal actor.

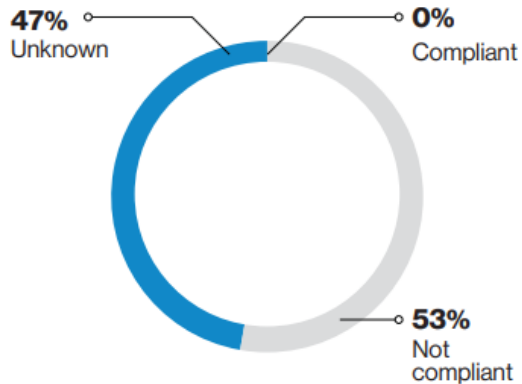
47%

of SMBs find breaches within days or less.



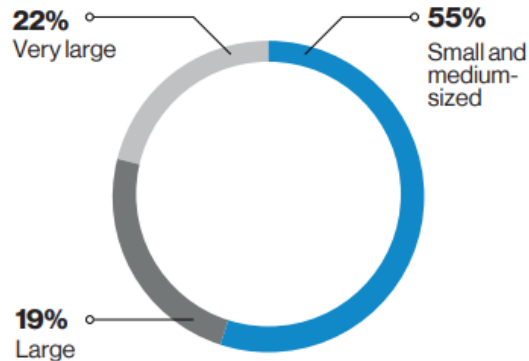
Six-year data breach correlation trends

Trends: PCI DSS compliance status



State of compliance at the time of the breach

Organization size



Confirmed payment card data breaches by organization size

Dataset time span: 2014 to 2019

Source: Verizon 2020 Payment Security Report



Recommended data security items for SMBs



Recommended data security items for SMBs



Scope Reduction

- >
 - Do not store any payment card data unnecessarily.
 - Do not capture credit card information in written form (unless the process is authorized and formally documented).

- >
 - Never store the magnetic track data from any card, in any format.
 - **Never store the CID/CVV2 card security code in any format, in any way, ever .**

- >
 - **Choose a PCI-compliant payment gateway.**
 - Use a PCI Security Standards Council (SSC)-validated point-to-point encryption (P2PE) solution

"If you don't need it, don't store it !"



Recommended data security items for SMBs



Secure Data

- > Use only secure transmission protocols, such as Transport Layer Security (TLS) v1.2
- > Make sure you only collect payment card information on a secure web page (originating from a PCI certified Service Provider).
- > Secure and monitor the redirection to your Payment Service Provider.

Secure your data flows from end-to-end



Recommended data security items for SMBs



Secure Systems

- >
 - **Never use default passwords.**
 - Set a strong password for your wireless router (if any)
 - Make sure that all available security and encryption features are enabled and properly configured
- >
 - **Don't host on the same server websites with different sensitivity levels.**
 - Make an inventory and maintain hardware / software support for all critical system components.
- >
 - Be proactive in monitoring the support life cycle for all your critical system components.
 - **Don't forget to update your development frameworks too.**

Apply best practices always, everywhere !



Recommended data security items for SMBs



Security Monitoring and Testing

- Run **internal and external network vulnerability scans at least quarterly** and after any significant change
- Make sure that penetration test(s) are performed in adherence to PCI DSS Requirement 11.3
- Periodically **inspect device surfaces** to detect tampering
- **Regularly check terminals, PIN pads and computers** to ensure that rogue software or “skimming” devices are not installed

Monitor your components' security on a regular basis



Recommended data security items for SMBs



Incident Response

- • Implement basic incident response procedures.
- • Be prepared to respond immediately to a system breach.
- • In the event of a breach or suspected data breach, contact the acquiring bank immediately
- • Provide appropriate training to staff with security breach response responsibilities

Be prepared to respond to a breach



Recommended data security items for SMBs



Security Governance

- > • Create a security policy for your business that addresses all aspects of the PCI DSS
- > • **Educate your employees about security** and protecting payment data
- > • Ensure that staff is **educated on an annual basis** (at minimum) to include education on device tampering
- > • **Monitor service provider PCI compliance status** to prevent lapses in compliance

Don't hide your security behind contracts. Be an actor of your compliance.



Real-world use cases

The background features a series of concentric dotted circles centered on the left side. Scattered across the slide are several small, tilted squares in various colors: green, blue, orange, yellow, white, and grey. A horizontal dotted line is positioned in the middle of the slide.

Real world examples - SMBs



Brick-and-mortar moving to E-Commerce

200 records breached

Prioritized Approach within 90 days + onsite
PCI DSS assessment

Cost of breach > annual revenue.



Local sporting and event company

20k records breached

PFI engaged on Acquirer request with
pressure from the Card Brand.

QSA engaged for compliance and audit.

Costs have been covered by a cyber
insurance.



Key takeaways for SMBs !

- PCI is NOT your main activity. **Let a certified Service Provider** do the job for you.
- **Use** HTTP REDIRECT or IFRAME to integrate E-Commerce payment pages. **Use P2PE** payment terminals for face-to-face.
- Work actively with your(s) Service Provider(s) and **monitor their compliance** on a regular basis.
- **Partner with your Acquirer** and **proactively demonstrate compliance** through an SAQ.

Engage a QSA to:

- Help define, prioritize and support your compliance strategy.
- Validate your PCI scope and requirements applicability.
- Keep you on track along your compliance journey.

Remember, you are ultimately accountable for your PCI maintenance

Need to know more ? Contact us.
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Appendix

- [2021 Data Breach Investigation Report](#)
- [2020 Payment Security Report](#)
- [Verizon Incident Preparedness and Response \(VIPR\) Report](#)
- [2021 Payment Security Report Insights PCI DSS 4.0 whitepaper](#)
- [Data Breach Digest 2018: Studies in cyber crime](#)
- [Overcoming PCI DSS compliance challenges for SMBs](#)
- [Mobile Security Index 2021](#)
- [All our reports](#)

