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CLIENTS IN OVER
50 COUNTRIES

GROWING



WITH MORE THAN

3 THOUSAND
SECURITY PROFESSIONALS

GLOBAL PRESENCE



OVER
50 THOUSAND
CLIENTS ENROLLED

STRATEGIC ALLIANCE



WITH PR SCIENCE, TECHNOLOGY AND RESEARCH TRUST & POLYTECHNIC UNIVERSITY OF PR



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In eComm We Trust

Securing Payments and Disrupting the Cybercrime Pandemic

The Next Generation of Commerce: Are you ready?



March 04, 2021





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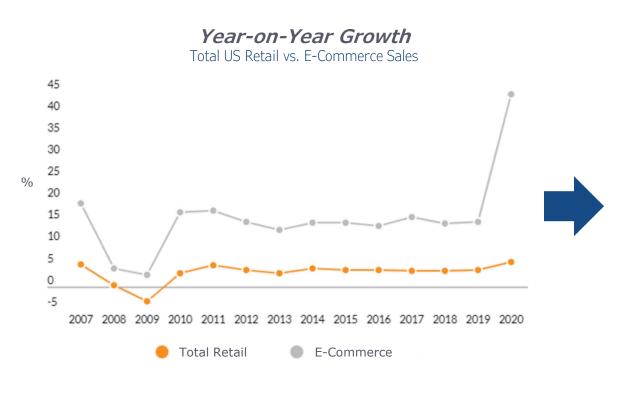
Immediate Actions



E-Commerce Before and After COVID-19



The global pandemic re-charted the foreseeable path for retail online commerce



US E-Commerce Penetration*

Pre-COVID 19 vs. Post-COVID 19



Sources and graphs: Digital Commerce 360; Global X ETFs; US Census Bureau - Monthly Retail Trade, 4Q 2020 E-Commerce Report

* Forecasted figures based on confirmed 1H 2020 confirmed sales



Q4 14.0%





Ilustrative

Analog

The First Revolution

Introduction of the payment card

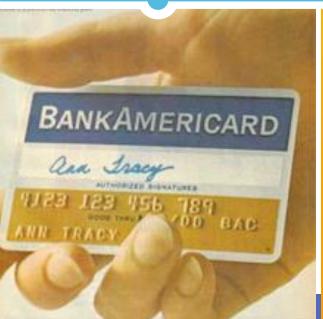


Digital

The Third Revolution

Tokenization and enhanced data





Electronic

The Second Revolution

Magnetic and chip cards



Near future

The Fourth Revolution

Emerging technologies (Quantum Computing, AI, IOT, Biometrics)

The evolving nature of fraud









The Fourth Revolution Emerging threat vectors

The Third Revolution

Mass data breaches

Ilustrative The First Revolution

Dumpster diving

The Second Revolution
Stolen & counterfeit cards



Fraud scope

Small Businesses



- Large population (~5MM+)
- Low/no security controls

Actionable Items

- Implement secure technology EMV chip, P2PE, tokenization
- Perform security basics: password management, patching systems /

Integrators & Resellers



- Frequently targeted by hackers
- Improper Point-of-Sale (POS) implementation
- Always-on remote access connectivity
- Common username / passwords

Actionable Items

Hospitality Industry



- Increased focus on hotels and restaurants
- Typically, back of house servers or property management systems
- Common breach methods include social engineering or spear phishing attacks
- Malware on systems allows attackers

Who are the Targets?

Hackers and Fraudsters target specific industries and victims



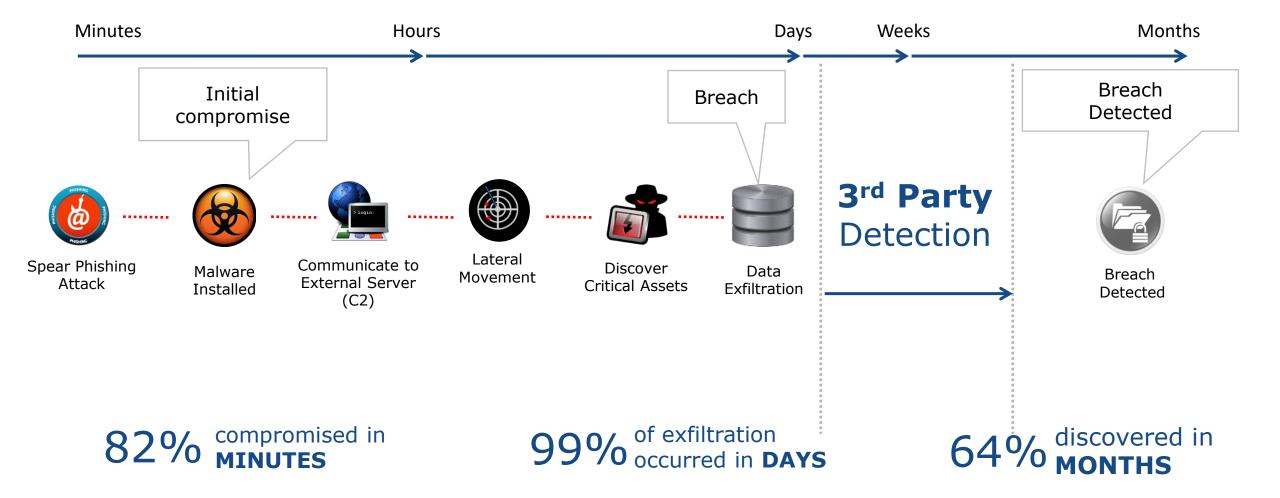


The Challenge for The Merchant



Asociación Comercio al Detal de Puerto Rico

Attackers Quickly Turn Incidents into Breaches





GAP OF GRIEF

SECURITY DETAIL

Account lockouts

Failed user access attempts

Web shell deletions

Buffer overflows

SQL injections

Cross-site scripting

Denial-of-service

IDS/IPS events

Incident level fixes

BUSINESS RISK

How bad is it?

Who was it?

How did they get in?

What information was taken?

What are the legal implications?

Is it under control?

What are the damages?

What do we tell people?

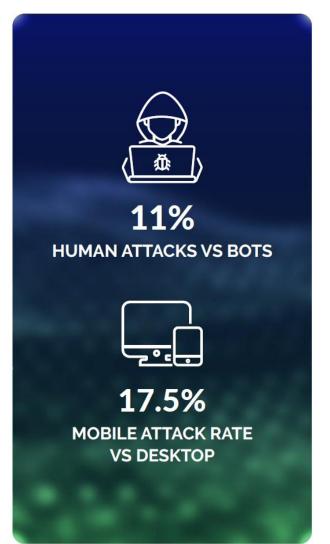
Cybercrime Pandemic



2020 In Review: Mass Digitalization Spurs on Fraud









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Cybercrime Pandemic

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What Changed in 2020?



The Digitized World

With much of the world stuck inside for large parts of the year, people turned to digital channels for everything from shopping to gaming to streaming media and more. In fact, the Arkose Labs network saw 4 times as many transactions overall compared to the prior year.



The Changing Face Of Fraud

As noted earlier, socioeconomic factors
brought on by Covid-19
forced many typically
law-abiding citizens into
fraud to make ends meet.
There was also an
onslaught of
chargebacks, as
consumers canceled
trips and demanded
refunds for orders taking
too long to ship.



A Stress Test Of Fraud Systems

The massive spike in digital traffic to online platforms, made for something of an unexpected stress test for fraud systems.
Suddenly, old models of what suspicious behavior looked like were thrown out the window, and for many platforms daily traffic was at rates normally only reserved for the business times of year.



The New Home Office

The switch to remote working spurred a much-needed digital transformation for internal fraud and security teams. Many realized that large teams were no longer required to be on-site, and servers could be monitored and even power switches turned on and off remotely.



New Attack Types

2020 saw a rise in hybrid attacks, as bots were used to launch many large scale/low reward attacks that relied on brute force, with humans supplementing attacks in which more nuance was required. Account takeover attacks in particular spiked, as fraudsters targeted the wealth of new accounts created by consumers using digital services for the first time.



Cybercrime Pandemic



2020 End of the Year Survey: Insights from the Field



Stimulus Fraud

Stimulus checks provided a new way to make instant cash, with an influx of fake or stolen identities were created to open new fake accounts and gain unemployment checks.



New Avenues

As the number of new digital users swelled, fraudsters found a larger window of opportunity. From price gouging to delivery scams—especially masks and sanitizers—fraud rings milked every opportunity to monetize attacks.



Friendly Fraud

There was an alarming increase in the amount of friendly fraud, with people disputing genuine transactions, fueling a spate of more organized refund fraud attempts.



Phishing & Social Engineering

Fraudsters used spam, social media, and social engineering techniques to play on the panic around COVID-19 to trick users into sharing their passwords. They even targeted labs creating vaccines for COVID-19 with ransomware.



Human Click-Farms

There was a spike in human click-farms, as jobless people and those stuck to their homes looked for opportunities to earn money, regardless of where it came from.



Synthetic Identity

The shift to cash to CNP caused businesses to relook at authorization, fraud models and how to manage identities, especially in the wake of fraudsters increasingly using synthetic identities.

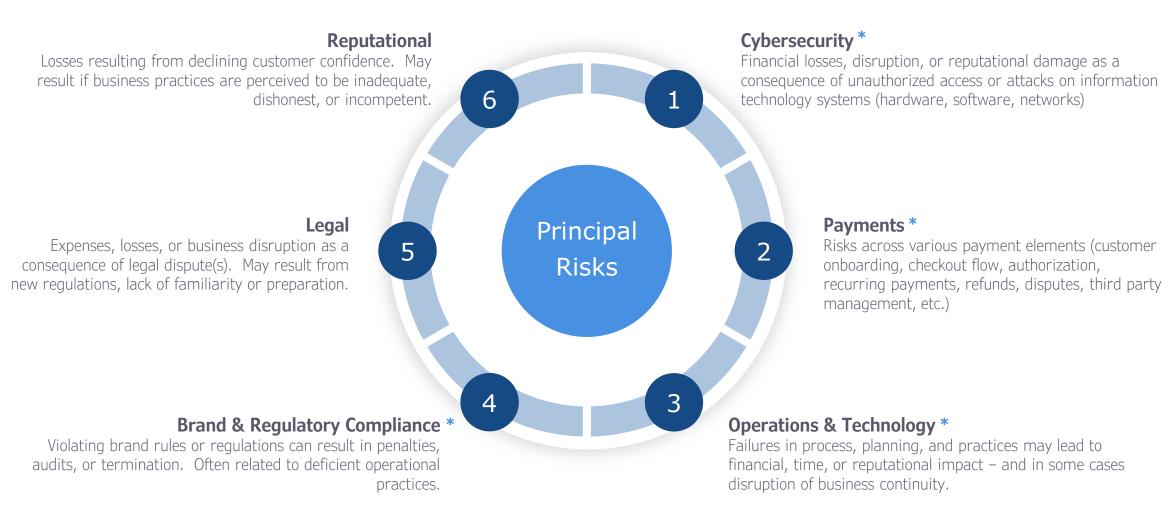


Key Risks



Digital transformations tend to affect nearly every facet of a business: strategy, ops, tech, process and people

6 key risk areas to consider for E-Commerce businesses



^{*} GM Sectec offers support in these areas



Immediate Actions



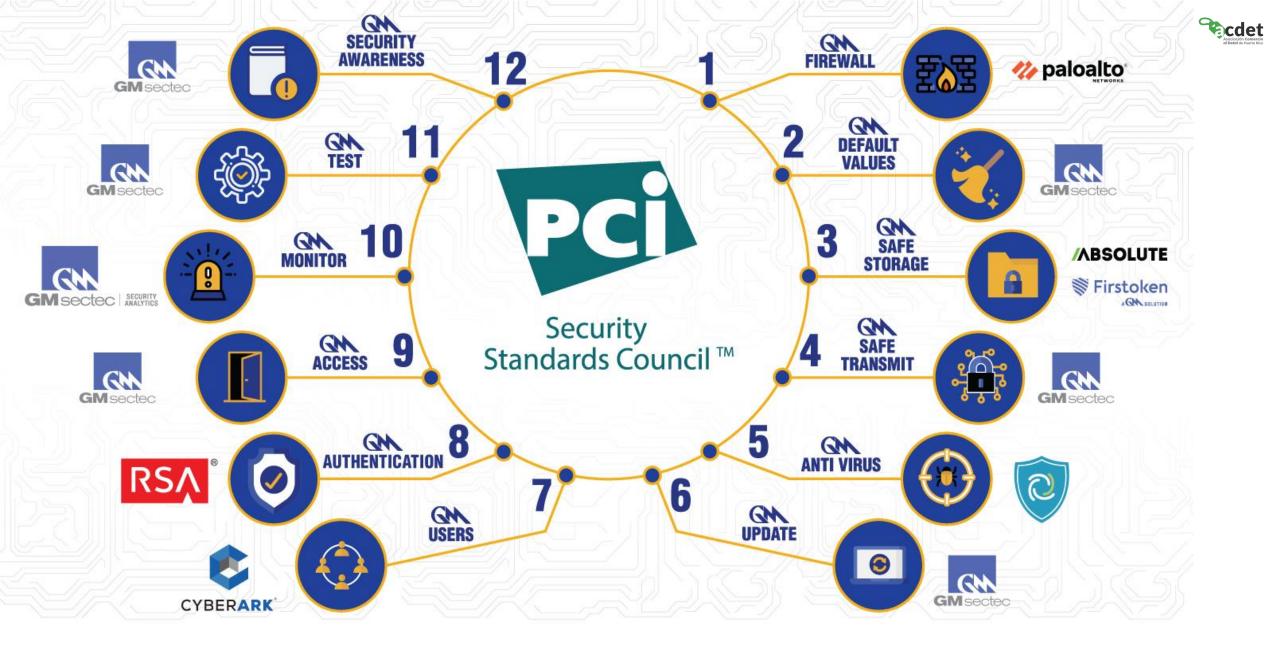
Short-term activities for E-Commerce merchants

Ensure PCI compliance and regular third-party reviews

Evaluate data from multiple sources to better recognize and block unusual customer payment behavior

Make sure customers know what they are paying for at checkout and in the future







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Immediate Actions



Short-term goals for E-Commerce merchants

Achieve PCI compliance; Require complex passwords and two-factor user authentication; Review data encryption practices; Ensure solid data breach response plan

Make sure customers know what they are paying (at time of checkout and in the future); Comply with consumer privacy and data protection regulations

Brand & Reg. Compliance

Payments

Understand disputes, chargebacks, and authorizations; Evaluate acceptance of expanded online payment options

Ops & Tech

Review existing solution providers' capabilities to support post-pandemic business plans; Deliver consistent experiences across the customer journey (all channels and touch points)











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