



Research Definitions

Research Definitions



Recommendations

Summ

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The LexisNexis[®] Risk Solutions 2019 APAC True Cost of Fraud[™] Study helps Retailers, e-Commerce merchants, and Financial Services businesses grow their revenues safely and manage the cost of fraud, whilst strengthening customer trust and loyalty.

The research provides a snapshot of:

- » Current fraud trends in the Singaporean Retail, e-Commerce, and Financial Services markets
- » Key pain points related to adding new payment mechanisms, transacting though web browsers and mobile, and expanding internationally

Fraud Definitions

Fraud is defined as the following:

- » Fraudulent and/or unauthorised transactions;
- » Fraudulent requests for refund/return; bounced cheques;
- » Lost or stolen merchandise, as well as redistribution costs associated with redelivering purchased items;
- » Fraudulent applications (i.e., purposely providing incorrect information about oneself, such as income, employment, etc.);
- » Account takeover by unauthorised persons; and
- » Use of accounts for money laundering.

This research covers consumer-facing fraud methods

» It does not include insider fraud or employee fraud

The LexisNexis Fraud Multiplier[™]

» Estimates the total amount of loss a merchant/company occurs based on the actual value of a fraudulent transaction





Study Data

Research Definitions

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Study data was collected online and by phone from June to August 2019. 360 surveys were completed with risk and fraud decision-makers, distributed across 4 APAC markets. The following report reflects results from the Singapore market.

	Singapore	Indonesia	Malaysia	Philippines
Retail	30	30 30 30 30 30 30	30	
e-Commerce	30	30	30	30
Financial Services	30	30	30	30
TOTAL	90	90	90	90

Surveyed industries include*:



Retail May or may not be omni-channel; earn less than 80% of revenues through online channels



e-Commerce Earn 80% or more of revenues through online channels Î

Financial Services Retail/Commercial Banks Credit Unions Investments Trusts Wealth Management

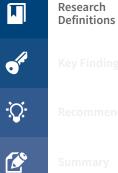
Across various categories, including: Apparel/Clothing, Automotive parts, Books/Music, Computers/Software, Digital Goods, Drug/Health & Beauty, Flowers/Gifts/Jewelry, Food & Beverage, General Merchandise, Hardware/Home Improvement, Hotel/Travel, Housewares/Home Furnishings, Office Supplies, Sporting Goods, Toys/Hobbies

*Use of the phrase "surveyed industries" throughout the report refers to Retail, e-Commerce, and Financial Services



Segment Definitions

Online Channels





Mobile Transactions through a smartphone/tablet, using mobile browser, mobile apps, contactless purchase, pay by text, and/or bill to mobile phone



Digital



Retailers & e-Commerce Merchants Selling Digital Goods/Services

Includes omni-channel Retailers, but more likely to be e-Commerce Merchants, selling goods or services that are stored, delivered, and used in electronic format:



Digital Financial Services

Earn 50% or more of revenues through online channels

- » Cloud-based applications
- » Digital services (i.e. Uber, Lyft, AirBnB)
- » Digital subscriptions
- » Downloadable software
- » eBooks, eLearning/online courses
- » eGift cards
- » Electronic tickets (i.e. concerts, sports, events)
- » Media streaming/downloads (i.e. TV, videos, music)
- » Mobile apps
- » Online games/gaming
- » Photos/graphics



TRUE COST OF FRAUD APAC	Key Findings
Research Definitions	The cost of fraud for surveyed industries in Singapore is 3.45 times the lost transaction value. This appears to be driven higher by Financial Services businesses, where the cost of fraud is 3.88 times the value of the lost transaction.
Key Findings	2 The mobile channel is contributing to fraud risk among surveyed industries in Singapore. » This includes both mobile web browsers and mobile apps.
Recommendations	3 Customer identity verification is a key issue for online channels. » Synthetic identities and botnet attacks are contributing factors.
Summary	 Businesses in surveyed industries that offer m-Commerce suffer from the cost of fraud. But Digital Financial Services firms (regionally) suffer even more. » For every fraudulent incident, the cost to businesses that offer m-Commerce is actually 3.98 times the amount of the lost transaction value, totaling fraud costs that are 1.88% of annual revenues. And this cost is even higher, up to 4.09 times the lost transaction amount, for Digital Financial Services firms across study countries.
	5 Businesses across surveyed industries are <u>not</u> fighting fraud optimally. A majority do not track successful fraud transactions by both channel and payment method.

Additionally, an average of 64% of flagged transactions continue to be sent for costly and timeconsuming manual reviews.

6 The use of more advanced fraud mitigation solutions is limited. » The use of more advanced solutions, and those geared toward mobile fraud detection, such as Digital Identity, Geolocation, and OTP/2 factor is limited.



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Key Findings

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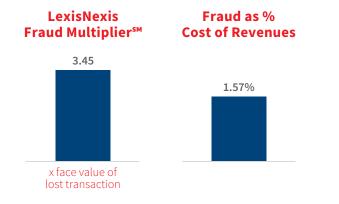
1 The cost of fraud for surveyed industries in Singapore is 3.45 times the lost transaction value.





The LexisNexis Fraud MultipliersM is 3.45 across surveyed industries. This means that for every fraudulent transaction, the cost to Singaporean businesses is actually 3.45 times the amount of the lost transaction value. This translates to fraud costs amounting to 1.57% of annual revenues overall. Country-level fraud volumes and costs appear to be driven up, in part, by the Financial Services sector, where volumes are higher.* And whilst anecdotal (given small base sizes), the cost of fraud for Financial Services businesses is directionally higher in Singapore (3.88 times the face value of the lost transaction) than in the United States (2018) (2.92 times). Some of this could relate to a 78% year-on-year growth in Financial Services attack rates for new account creations in the region.⁴

» The mobile channel, digital goods/services sales, and limited use of solutions to address specific threats are part of the reason for higher risks and costs.

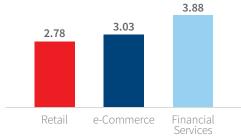




Financial Services businesses experience about 2x as many fraudulent transactions as Retailers and e-Commerce merchants*



LexisNexis Fraud Multiplier™ by Industry



* CAUTION: small number of cases, data should be used directionally only 1 ThreatMetrix

1 ThreatMetrix[®] H2 2018 Cybercrime Report



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TRUE COST OF

FRAUD APAC

Key Findings

How is the LexisNexis Fraud Multiplier[™] calculated?





	Illustration Calculating the LexisNexis Fraud Multiplier™		Description The total cost for every S\$ 1 of fraud, calculated a total losses divided by the amount of fraudulent transactions for which the firm is held liable		
er℠	Step 1:	Obtain average revenue	9	S\$ 1,096,225,176*	
	Step 2:	Obtain fraud as % of an	nual revenue from Q10	1.57%	
	Step 3:	Calculate total cost of fr	raud (Steps #1 x #2)**	S\$ 17,210,735	
	Step 4:		for lost transaction values udulent transactions that	29.02%	
	Step 5:	Calculate actual value o transaction that occurre		S\$ 4,994,555	
	Step 6:	Calculate total cost for e cost in Step 3) / (value o in Step 5)	every S\$ 1 of fraud (total f fraudulent transactions	\$3.45	

**Total cost of fraud includes not only the lost transaction face value for which firms a held liable, but also costs for replacing or redistributing lost/stolen merchandise, fees/interest paid to financial institutions, fees and interest incurred during the application, underwriting, and processing stages, fines and legal fees, labor for investigation, and external costs for expense recovery.



Contributing factors to fraud in Singapore.

Research Definitions Key Findings Recommenda

Summary

Market Conditions

The risk of fraud is higher through remote channels and Singapore's e-Commerce and m-Commerce sectors are growing:

- » There are currently 3.12M e-Commerce users in Singapore, with an additional 998,000 users expected to be shopping online by 2021.²
- » e-Commerce revenue is projected to hit \$4.99B by 2020, based on an expected annual growth rate (CAGR 2019-2023) of 14.7%.³
- » 26% of Singaporeans shop online at least once a week the highest percentage per capita in SEA.⁴

Cybercrime is on the rise:

- » With one of the world's fastest internet connections, Singapore enjoys very high online activity. The threat of cybercrime is on the increase, particularly identity theft, online scams, phone scams, and voice phishing.⁵
- » There were roughly 2,125 e-Commerce scams in 2018, with a total of about S\$1.9 million in losses overall.⁶

Transaction Risks

Growth of mobile channel transactions, including high use of mobile browsers and mobile apps that are increasingly targeted by fraudsters. The mobile channel is more risky/less secure.

Risks from mobile browser and mobile app transaction methods.

Those selling digital goods and services are challenged with more real-time need for fraud detection and identity verification given the speed and nature of the transaction (i.e., quickly downloaded, no delivery address to support verification).

Limited use of risk mitigation solutions that specifically address mobile and digital goods/services risks.



2 https://www.eshopworld.com/blog/singapore-ecommerce-insights/

3 https://www.mti.gov.sg/Newsroom/Press-Releases/2019/05/Singapore-leads-the-way-in-new-Digital-Economy-Partnership-Agreement-with-Chile-and-New-Zealand 4 lbid

Shttps://www.interpol.int/en/Who-we-are/Member-countries/Asia-South-Pacific/SINGAPORE

 $\label{eq:constraint} 6\ https://www.todayonline.com/singapore/cyber-threats-singapore-fall-online-scams-continue-rise$



PAGE 9

Major revenue and fraud losses come from Singapore-oriented transactions.

- Where non-Singapore fraud occurs, a majority comes from other Southeastern Asia markets. Other fraud >> losses are fairly fragmented across regions.
- There is a disproportionate degree of fraud from other regions as compared to their revenue contributions. >> This follows a growing trend with attack dispersion, in which attackers are beginning to target markets outside of their region.7



TRUE COST OF

FRAUD APAC

Key Findings

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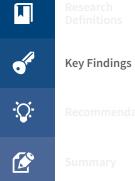
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7 ThreatMetrix[®] H2 2018 Cybercrime Report



2 The mobile channel is contributing to fraud risk among surveyed industries in Singapore.



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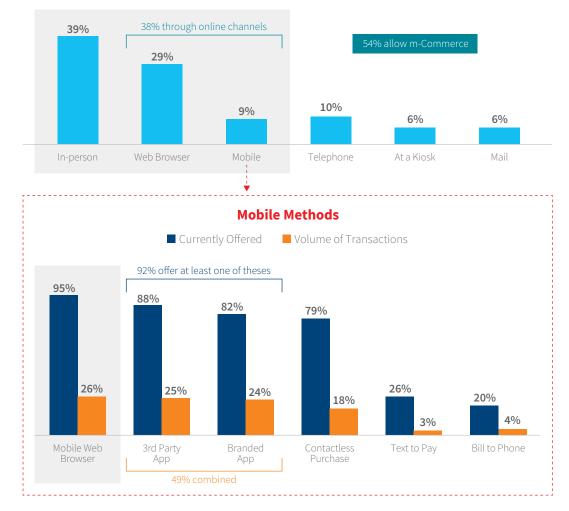


The bulk of transactions tend to go through the in-person and online channels.

- **Key Findings**

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- Just over half of survey respondents allow >> m-Commerce transactions. However, mobile commerce shows a stronger growth than the overall online market. Young Singaporean customers (between 18 and 29 years old) are driving this trend; almost three quarters of them use their mobile devices for shopping. Mobile usage is expected to continue to grow strongly in the short term.8
- Of those that do accept mobile, the largest volume >> of transactions are through mobile apps (3rd party and branded), followed by mobile web browsers.
- Whilst mobile web browsers have historically >> been considered less secure, fraudsters are now increasingly targeting mobile apps at a global level⁹, driven in part by click flooding and botnet attacks. Shopping, gaming, and financial apps are hit the hardest. Botnets attack devices through malware and can then imitate legitimate transactions coming from a mobile app. Device owners may not even be aware.

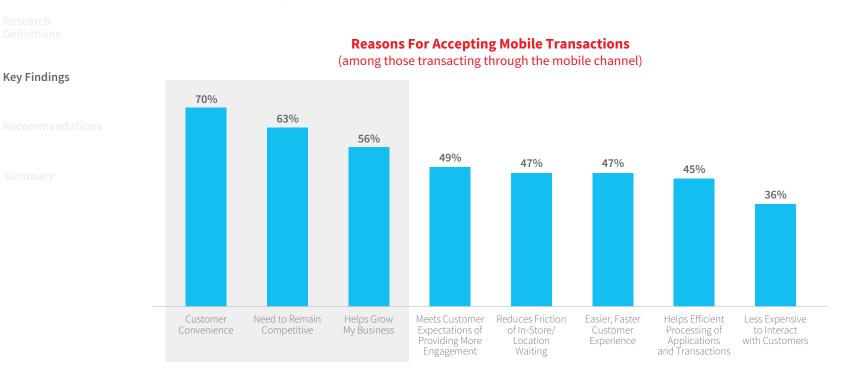


Average Distribution of Transaction Volume Across all Channels

RISK SOLUTIONS

8 https://www.export.gov/article?id=Singapore-eCommerce 9 https://www.appsflyer.com/resources/the-state-of-mobile-fraud-q1-2018/

However, mobile transaction risk seems to be an accepted trade-off to grow business.





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TRUE COST OF

FRAUD APAC

Key Findings

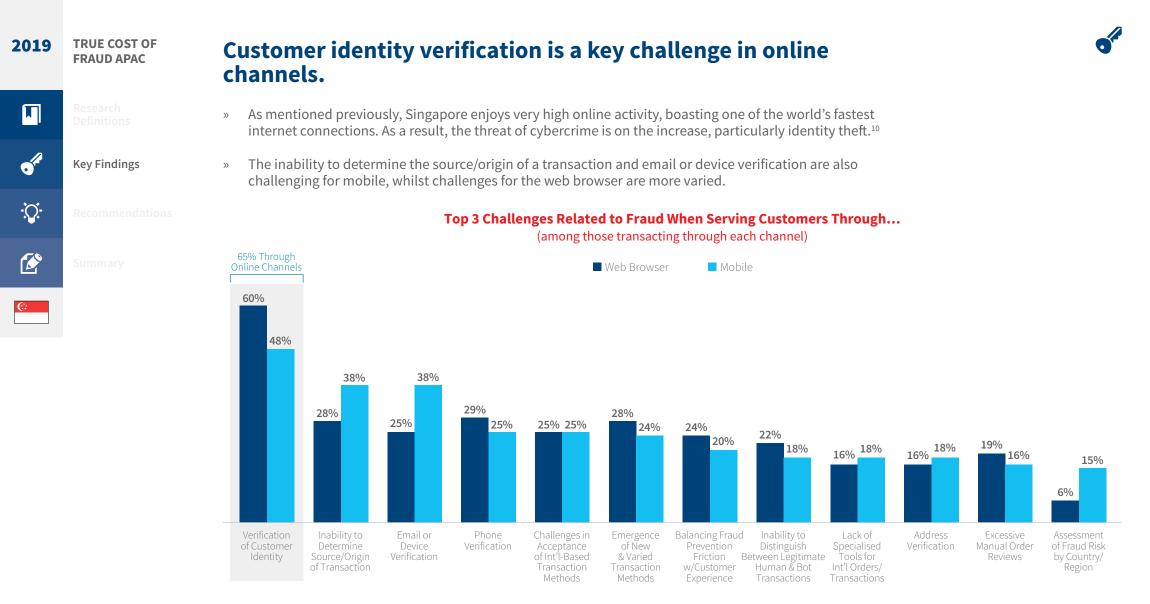
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3 Customer identity verification is a key issue for online channels.

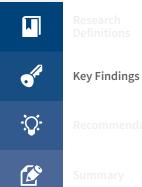






10 https://www.interpol.int/en/Who-we-are/Member-countries/Asia-South-Pacific/SINGAPORE

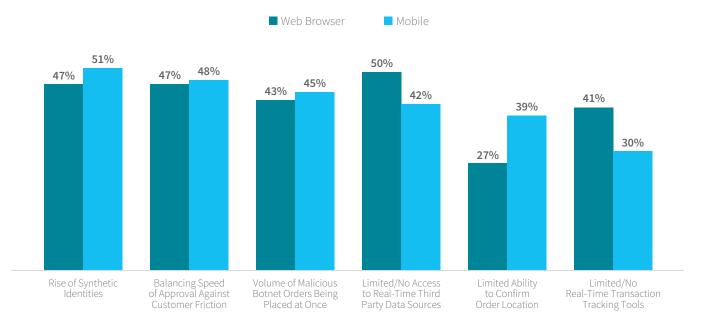




Key factors hindering effective customer identity verification include the rise of synthetic identities, balancing speed of approval against customer friction, and volume of malicious botnet orders.

As prevention technologies have improved to stop activities such as card skimming, criminals are now stealing identities or constructing "fake" people. The availability of personal information online via social media platforms and mobile apps has made it easier for culprits to mix fake and real personal information.
 6 in 10 APAC banks reportedly experienced synthetic identity fraud in 2018.¹¹

Top 3 Factors That Make Customer Identity Verification a Challenge Through...



(among those transacting through each channel)

11 https://sbr.com.sg/financial-services/asia/6-in-10-banks-in-apac-victimised-fake-identities



Synthetic identities are a serious threat. Their very nature makes it extremely difficult to detect before damage is incurred.

Synthetic identities are comprised of real and/or fake personal information. They are created by using



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Key Findings



Multiple real persons into a single fake identity, with a valid shipping address, tax/insurance/ identification number, date of birth, name, etc. - none of which matches any one person. This type may be used for shorter-term fraud gains, such as bigger ticket items.



One real person by using some of his / her information combined with fake data. In this case, the fraudster is likely to be nurturing this identity, using it to establish a good credit history before ultimately "going bad".



No known persons in which the personally identifiable information doesn't belong to any consumer. 😢 It is entirely fabricated and may be nurtured for longer-term gain and is useful when posing as an underbanked consumer with a less established purchasing footprint (i.e., younger Millennials).

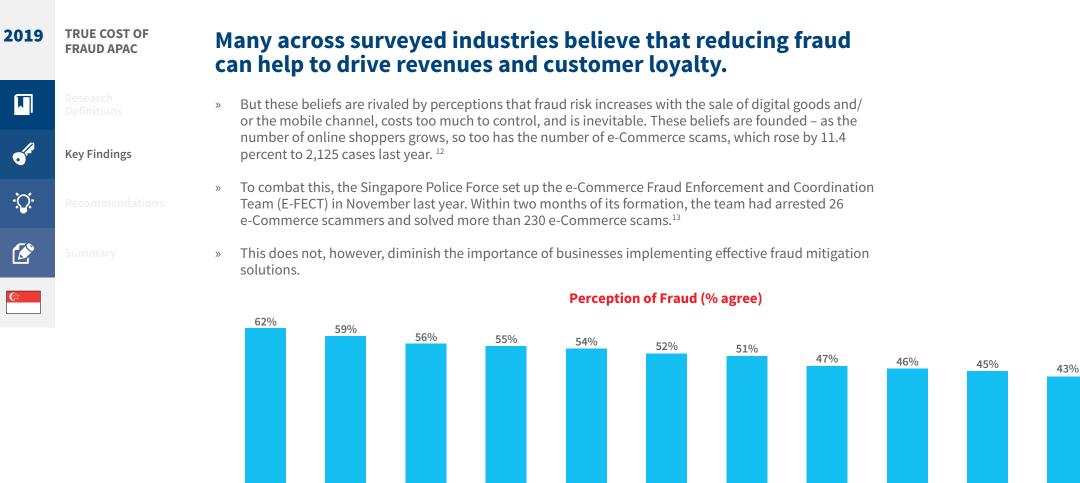


Risks & Challenges

Extremely Hard to Distinguish from Legitimate Customers	Difficult to detect with traditional identity verification / authentication solutions	Real customers don't help; behaviours make it difficult to spot anomalies with current ID solutions.
Focus on nurturing the identity to mimic a good customer; establishes good credit, pays on-time, etc. before "breaking bad"	These are professional fraudsters; they often know the types of information required to gain approval and pass certain checkpoints. Use of real identity data helps them do this.	Consumers have more ways to purchase, from different locations anywhere and anytime. They might share passwords and use different devices at different times. It is harder to make physical and digital connections that distinguish fraudulent from legitimate patterns.



information from either:



12 https://www.straitstimes.com/singapore/new-police-e-Commerce-fraud-unit-nabs-26-scammers-in-2-months

Reducing fraud

can help

increase my

revenues

Security of

mobile device

transactions

Lower

fraud rates

increase

customer

loyalty

Increasingly difficult

to manage

fraud prevention

whilst minimizing

customer friction

Evolution of

mobile payment

& channel adds

significant

risk of fraud

Transacting

via mobile

channel is more

secure than the

web browser

e-Gift card

fraud will

continue to

rise in the

future

Fraud is

inevitable

13 Ibid

Selling digital

goods

increases the

risk of fraud

*Asked only of Retailers/e-Commerce merchants selling digital goods/services

much to

control fraud



Combatting

automated Botnet

activity is

overwhelming



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4 Businesses in surveyed industries that offer m-Commerce suffer from the cost of fraud. But Digital Financial Services firms (regionally) suffer even more.







Key Findings

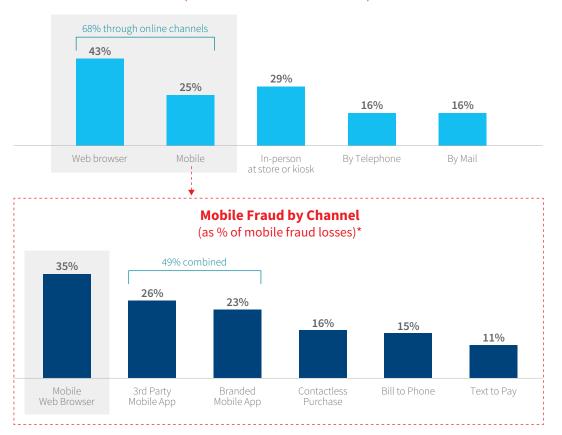
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A large share of fraud, approximately 68%, comes from online channels.

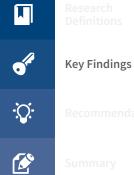
- Mobile transactions in the region are experiencing a growth in attack rate of 17% year-on-year.¹⁴
 - Whilst the mobile web browser accounts for the single largest amount of fraud losses, branded and 3rd party mobile apps account for more, combined. This reinforces that fraudsters are indeed targeting them.

% of Fraud by Transaction Channel (as % of total annual fraud losses)*



*% can add to more than 100% since answers based on using a channel 14 ThreatMetrix® H2 2018 Cybercrime Report



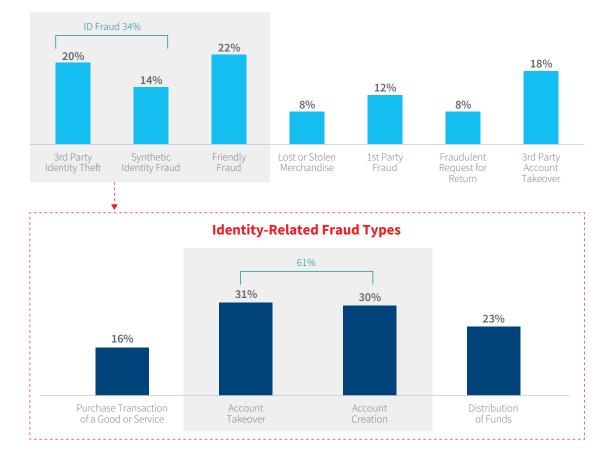


With such a large volume of fraud losses occurring through online channels, it's not surprising that approximately 34% of fraud losses are due to identity fraud (3rd party/ synthetic identity) alone.

- Fraud from account takeovers >> and fraudulent account creations represents significantly more identity-based fraud than that coming from purchases or transactions.
- New e-Commerce account >> creation transactions from Southeast Asia are attacked at a very high rate of 41%. And new account creations attacks in the **Financial Services sector have** grown by 78% overall, and 105% through mobile devices. ¹⁵

AAsked only of Retailers/e-Commerce merchants

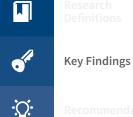
BAsked only of Financial Services businesses



% Distribution of Fraud Losses by Method



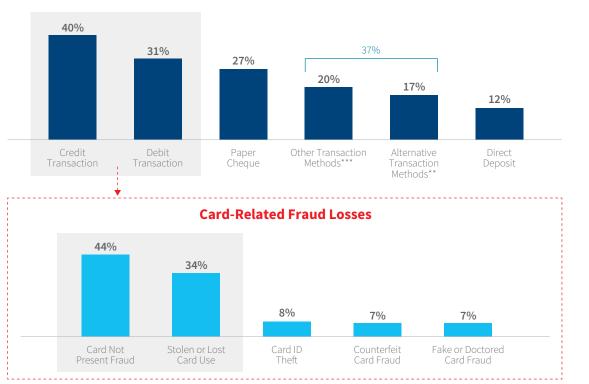
15 Ibid



Whilst credit and debit transactions account for largest individual amount of fraud losses, alternative and other methods (which include web and mobile options) amount to just as much.

- A survey by Payvision shows >> that most domestic web/mobile sales are paid by credit card. Additionally, for cross-border purchases, Singapore's preferred payment methods are credit cards and PayPal.¹⁶
- With card transactions being >> so popular in Singapore, it is especially problematic that fraudsters are targeting them. CNP and stolen card tend to be their frauds of choice.

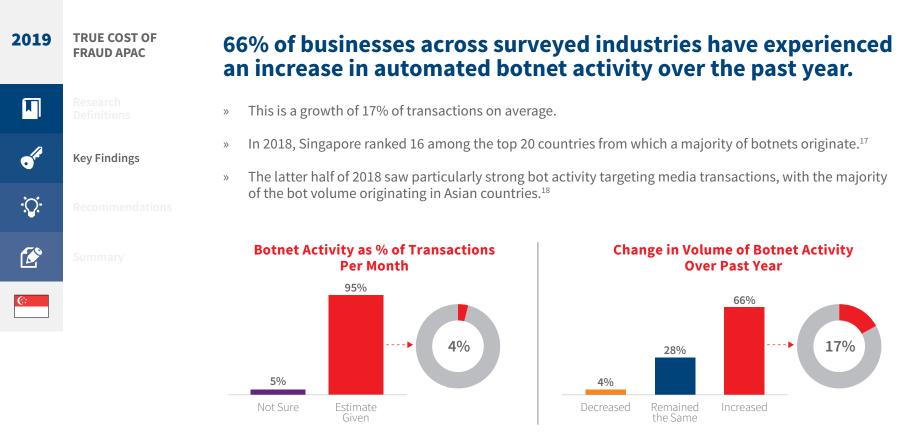
Fraud by Transaction Method



(as % of total annual fraud losses)*

RISK SOLUTIONS

- 16 https://www.export.gov/article?id=SingaporeeCommerce
- % can add to more than 100% since answers based on whether using a channel
- ** Alternative transaction methods include PayPal, BillMeLater, eCheque
- *** Other transaction methods include cash, mobile device-based wallets, gift cards



17 https://www.deteque.com/app/uploads/2019/02/Spamhaus-Botnet-Threat-Report-2019.pdf 18 ThreatMetrix H2 2018 Cybercrime Report



Key Findings

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The combination of these factors contribute to increased risk.



Mobile

- » Rise of mobile botnet attacks; malware infects devices without consumer knowledge; steals identity, hacks accounts, makes fraudulent purchases¹⁹
- » Consumer risk behaviours using open WiFi networks increases risk of smishing (SMS-based phishing) and man-in-the-middle interception of passcodes used for multi-factor authentication²⁰; "keep me logged in" habits become an unlocked entry point to accounts
- » Increasing pool for fraudster opportunity as more people conduct mobile transactions

Cross Border

 Uncertainties, blind spots and new payment methods; it becomes difficult to determine transaction origination; lack of verifiable data on consumers (particularly with GDPR)



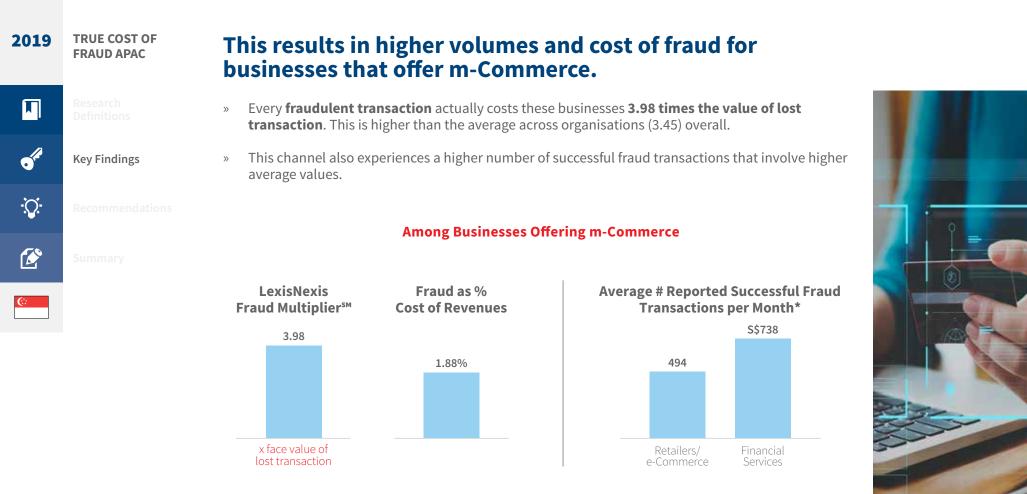
Digital

- **Fast transaction**; digital goods/ services, such as downloads and subscriptions, tend to occur quickly; lack of a physical delivery address eliminates buffer period for fraud verification before shipment; with fear of abandonment, merchants struggle with balancing fraud prevention and minimising customer friction.
- » Favourite target for fraudster card testing; use of bots to test stolen credit card information with lower value goods/services (typical of digital goods/services) tend to arouse less suspicion.
- Easy targets; synthetic identities and stolen data make it difficult to distinguish between malicious attacks and legitimate customers in the anonymous channel.



20 4 Mobile Fraud Trends to Look for in 2019; https://threatmetrix.com/digital-identity-blog/fraud-prevention/4-mobile-fraud-trends-look-out-for-2019

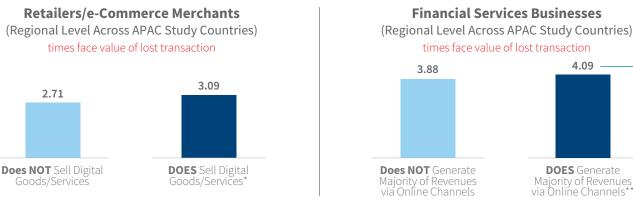




* Based on self-reported numbers and likely recall; not meant to be exact; may increase or decrease based on seasonality







LexisNexis Fraud Multiplier[™]

*sells goods/services that are stored, delivered, and used in electronic format, including cloud-based applications, digital services, digital subscriptions, downloadable software, eBooks, eLearning/online courses, eGift cards, electronic tickets, media streaming/ downloads, mobile apps, online games/gaming, photos/graphics **earn 50% or more of revenues through online channels

4.09



Higher than digital mid/large US Financial

Services (2018) (3.18 times)





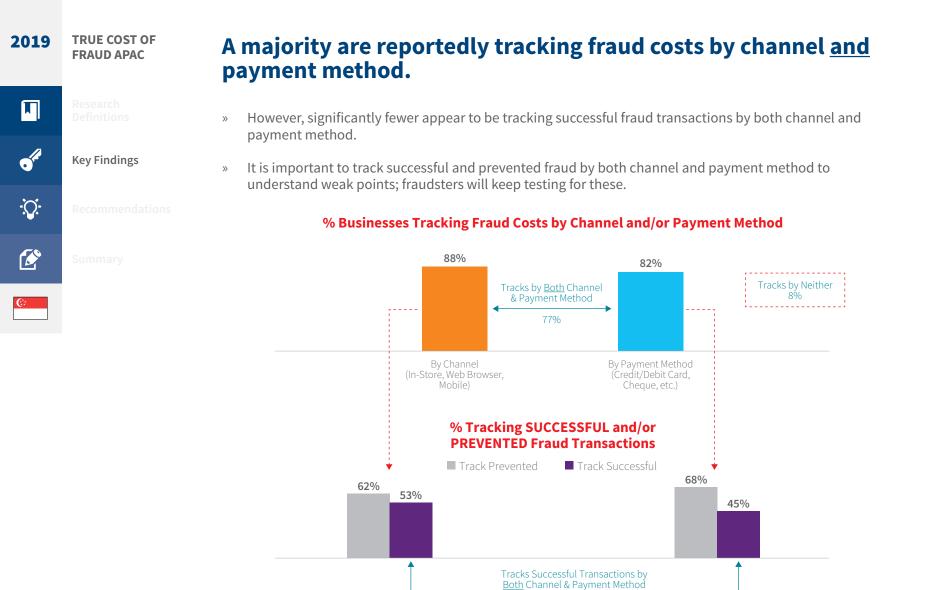


5 Businesses across surveyed industries are <u>not</u> fighting fraud optimally.









39%

Less than 50% of transactions are flagged by an automated system.

Researce Definition

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Key Findings

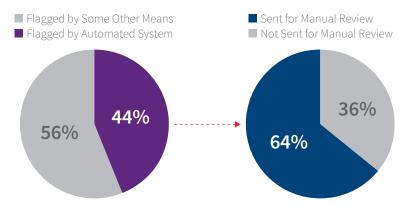
Recommendations

Summ

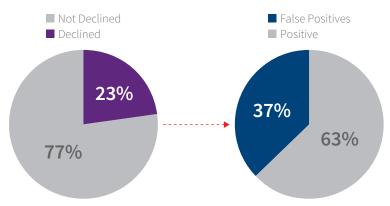
» And among those that are, a significant amount (64%) are sent for manual review.

» Unfortunately, manual reviews aren't preventing false positives, with over 1 in 3 transactions (37%) declined in error. This has revenue and longer-term customer relationship consequences.

% Transactions Flagged by Auto System. Sent for Manual Review



% Flagged Transactions That Are Declined. False Positives

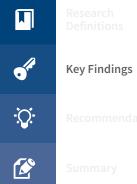








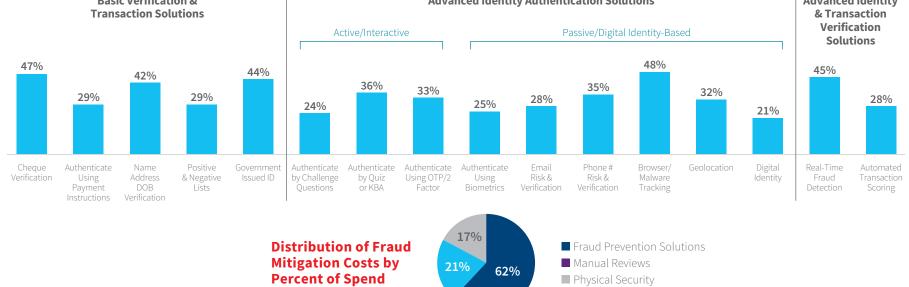
6 The use of advanced fraud mitigation solutions is limited.



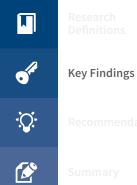




2019 TRUE COST OF An average of 5.4 fraud mitigation solutions are being used **FRAUD APAC** across the surveyed industries. However, the use of more sophisticated solutions to address the emerging multi-faceted nature of fraud is limited, particularly with regard to >> behavioural biometrics and other digital identity solutions that can fight synthetic identity fraud and botnet attacks. Given similar incidence rates between some of the physical (cheque verification, government issued ID, name/address/DOB) and digital solutions (real-time fraud **Key Findings** detection), this suggests some layering of solutions for more effective fraud detection. However, there is still a significant portion of businesses across surveyed industries that are not doing so. ·Q· The use of solutions to address mobile threats (digital identity, geolocation, OTP/2 factor) is limited. And whilst solutions are a sizeable portion of >> fraud mitigation budgets, manual reviews are nearly one-quarter of costs, further suggesting that current fraud prevention attempts are lacking. Fraud Mitigation Solutions Use (Avg. 5.4 Solutions Used) **Basic Verification & Advanced Identity Authentication Solutions** Advanced Identity





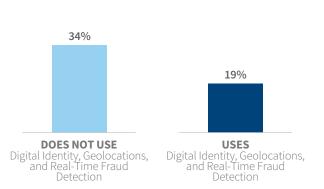


But it's not just about the number of solutions. It's important to layer the right combination to meet threats from specific types of channels and transactions.

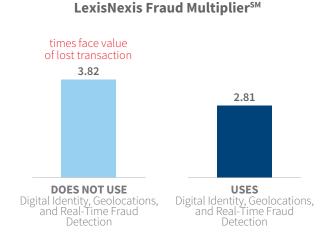
- » Bundling Digital Identity, Geolocation, and Real-Time Fraud Detection solutions can be an effective fraud mitigation tool.
- » Regional findings show that APAC businesses in surveyed industries that do this are better able to address mobile threats and the fast-paced challenge of digital/anonymous transactions, resulting in fewer successful fraudulent transactions and lower fraud costs overall.

Businesses That Allow Mobile Transactions

(Regional Level Findings in Surveyed Industries Across APAC Study Countries)



% of False Positives







Key Findings

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Digital Goods & Services: fast transactions, easy synthetic identity and botnet targets; need velocity checking to determine transaction risk along with data and analytics to authenticate the individual

identity and transaction risk.

Account-related fraud: breached data requires more levels of security, as well as authenticating the person from a bot or synthetic ID

Fraud has become more complex; various risks can occur at

authenticate both digital and physical criteria as well as both

the same time with no single solution. Fraud tools need to

Fraud <u>Issues</u>

Synthetic identities: need to authenticate the whole individual behind the transaction in order to distinguish from fake identity based on partial real data Botnet attacks: mass human or automated attacks often to test cards, passwords/ credentials or infect devices **Mobile channel:** source origination and infected devices add risk; mobile bots and malicious malware makes authentication difficult; need to assess the device and the individual

Assessing the transaction risk

Velocity checks / transaction scoring: monitors historical shopping patterns of an individual against their current purchases to detect if the number of orders by the cardholder match up or if there appears to be an irregularity (Solution examples: real-time fraud detection; automated transaction scoring)

Solution Options

Authenticating the physical person

Basic Verification verifying name, address, DOB or providing a CVV code associated with a card (Solution examples: cheque verification services; payment instrument authentication; name/address/DOB verification) Active ID Authentication use of personal data known to the customer for authentication; or where user provides two different authentication factors to verify themselves (Solution examples: authentication by challenge or quiz; authentication using OTP/ 2 factor)

Authenticating the digital person

Digital identity / behavioural biometrics: analyses humandevice interactions and behavioural patterns such as mouse clicks and keystrokes, to discern between a real user and an impostor by recognising normal user and fraudster behaviour (Solution examples: authentication by biometrics; e-mail/phone risk assessment; browser/malware tracking; digital identity)

Device assessment: uniquely identify a remote computing device or user (Solution examples: digital identity; geolocation)



2019	TRUE COST OF
	FRAUD APAC

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 Research Definitions

 Image: White State State

Technology is the Key

- » To minimize fraud, organizations can no longer rely on manual processes with the assistance of limited technologies to reduce challenge rates, manual reviews, and costs.
- » Businesses need a robust fraud and security technology platform that helps them adapt to a changing digital environment, offering strong fraud management and resulting in a frictionless experience for genuine customers.
- » Deploying technologies, which can recognize customers, pinpoint fraud, and build the fraud knowledge base to streamline onboarding, can prevent account takeovers and detect insider threats.
- » Using valuable data attributes like users' login from multiple devices, locations, and channels is essential for identifying risks.
- » Enabling integrated forensics, case management, and business intelligence can help to improve productivity.





2019	TRUE COST OF FRAUD APAC	Recommendations
	Research Definitions	Multi-Layered Fraud Defense is Required
	Key Findings	» Single point protection is no longer enough and results in single point of failure.
ւ:	Recommendations	» As consumers transact across locations, devices, and geographies, user behaviors, such as transaction patterns, payment amounts, and payment beneficiaries, are becoming more varied and less predictable.
	Summary	» A multi-layered, strong authentication defense approach is needed. This includes a single authentication decision platform that incorporates real-time event data, third-party signals, and global, cross-channel intelligence.
¢		» Also required is the ability to examine malware level threats, Bot, and remote access Trojan and IP spoofing detection across web and mobile channels.
		» At the same time, the ability to provide behavioral analytics and reduce false positives and customer friction is key.



2019	TRUE COST OF FRAUD APAC	Recommendations	• Q •
		Improve Decisioning With Machine Learning	
of the second se		» Employing machine technology will further reduce fraud mitigation costs and manpower by adapting to changing customer behaviors over time.	٢
ţĊ.	Recommendations	» Organisations that have existing fraud detection policies can test different machine learning models until they find one that best aligns with their business objectives.	th
ß		» Such a model can deliver benefits that include enhanced fraud detection, reduction in false positives, improved identification of trusted customers, and optimized challenge and maximum review rates.	
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2019	TRUE COST OF FRAUD APAC	Recommendations
	Research Definitions	Creating an Industry Alliance is a Great Option
o	Key Findings	» Organisations are likely fighting against the same group of fraudsters. In fact, fraud patterns and risks share many similarities across industries and geographies.
. `. :	Recommendations	» Building an industry-specific alliance that exchanges important information can keep members up-to-speed on industry fraud patterns and tactics, complimenting their own intelligence, and allowing them to more accurately identify and track at-risk individuals and devices. Such information can include:
	Summary	 » Historic blacklisted devices
©		 » Mule accounts and associated fraud strategies » Specific risks pertaining to industry/use case/geography
		» Specific fisks pertaining to industry/use case/geography





2019 TRUE COST OF LexisNexis[®] Risk Solutions can help FRAUD APAC LexisNexis[®] Risk Solutions provides powerful identity verification, identity authentication and transaction scoring tools to combat fraud. LexisNexis[®] Risk Solutions: **Vast Data Resources** ·Q· Recommendations **Big Data Technology**

Linking & Analytics Industry-Specific Expertise & Delivery

Customer-Focused Solutions

Identity Verification

- » Validate name, address and phone information
- » Reconcile name variations, duplicates, multiple addresses, and myriad other inconsistencies and linkages
- » Perform global identity checks with seamless integration and reporting capabilities

Transaction Risk Scoring

- » Identify risks associated with bill-to and ship-to identities with a single numeric risk score
- » Quickly detect fraud patterns and isolate high-risk transactions
- » Resolve false-positive and Address Verification Systems failures

Manual Research Support

- » Access billions of data records on consumers and businesses
- » Discover linkages between people, businesses and assets
- » Leverage specialised tools for due diligence, account management and compliance

Identity Authentication

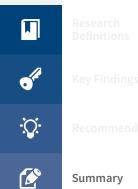
- » Authenticate identities on the spot using knowledge-based guizzes
- » Dynamically adjust security level to suit risk scenario
- » Receive real-time pass/fail results

For more information: visit https://risk.lexisnexis.com/global/en/financial-services/fraud-and-identity-management



2019

TRUE COST OF FRAUD APAC



Regional Summary. Fraud is sizeable across APAC businesses, but is more pronounced for the Financial Services industry, as well as businesses of all types that conduct transactions through the mobile channel.

- » These businesses experience high successful fraud volumes and transactions amounts, even though they are using just as many fraud mitigation solutions, on average, than others.
- » Financial Services businesses also attribute more fraud losses to identity fraud and are more likely to rank identity verification as a challenge than other businesses.

	Region		Industry		Offer m-Commerce	
	Overall	Retail	e-Commerce	Financial Services	Yes	No
LexisNexis Fraud Multiplier™	3.40	2.80	3.00	3.92	3.99	2.92
Fraud Costs as % of Revenues	1.75%	1.64%	2.50%	1.56%	1.96%	1.65%
Avg. # Fraud Mitigation Solutions	5.5	5.5	5.4	5.5	5.5	5.4
Avg. # SUCCESSFUL Monthly Fraud Transactions	391	305	270	480	564	191
Avg. \$ Amount of SUCCESSFUL Monthly Fraud Transactions	S\$573	S\$465	S\$480	S\$667	S\$716	S\$407
% of m-Commerce That Offer Mobile Apps	95%	93%	97%	95%	95%	
% Distribution of Losses Related to Identity Fraud	33% (14% synthetic)	27% (9% synthetic)	29% (13% synthetic)	38% (16% synthetic)	34% (15% synthetic)	32% (13% synthetic)
% Ranking Identity Verification as a Top Online/Mobile Challenge	65%	58%	61%	70%	64%	66%



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And when looking *within* industries, it is digital goods merchants and digital Financial Services businesses that get hit hardest by fraud.

>>

Summary

- whilst the online/mobile channels account for nearly two-thirds of Financial Services fraud losses. These businesses have higher >>
 - successful fraud volumes and values than others, which contributes to higher fraud costs.

Digital goods account for

nearly half of Retail/e-Commerce fraud losses,

Businesses that are digital >> in nature (either by type of good sold or transaction channel) are highly likely to allow transactions through high-risk mobile apps, which further compounds the challenges faced regarding identity verification, including synthetic identities.

	Retail/e-C	ommerce	Financial	Services
	Sell digital goods*	Sell physical goods only	Digital**	Non-digital
LexisNexis Fraud Multiplier [™]	3.09	2.71	4.09	3.88
Fraud Costs as % of Revenues	2.45%	1.56%	2.38%	1.31%
% Fraud Losses From	Digital goods = 39%		Online/mobile channels = 62%	Online/mobile channels = 48%
Avg. # Fraud Mitigation Solutions	5.8	5.2	5.4	5.5
Avg. # SUCCESSFUL Monthly Fraud Transactions	443	156	832	360
Avg. \$ Amount of SUCCESSFUL Monthly Fraud Transactions	S\$551	S\$393	S\$1,408	S\$418
% of m-Commerce ThatOffer Mobile Apps	98%	88%	94%	96%
% Distribution of Losses Related to Identity Fraud	31% (13% synthetic)	25% (8% synthetic)	38% (16% synthetic)	38% (17% synthetic)
% Ranking Identity Verification as a Top Online/Mobile Challenge	60%	59%	75%	57%
% Ranking Synthetic Identities as Top Challenge to Identity Verification	48%			





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Fraud is also sizeable across APAC countries.

Research Definitions		Region		Country			
		Overall	Singapore	Indonesia	Malaysia	Philippines	
	LexisNexis Fraud Multiplier™	3.40	3.45	3.25	3.57	3.46	
	Fraud Costs as % of Revenues	1.75%	1.57%	1.66%	1.93%	2.03%	
Summary	Avg. # Fraud Mitigation Solutions	5.5	5.4	5.6	5.6	5.1	
	Avg. # SUCCESSFUL Monthly Fraud Transactions	391	317	464	401	332	
	Avg. \$ Amount of SUCCESSFUL Monthly Fraud Transactions	S\$573	S\$582	S\$589	S\$624	S\$491	
	% of m-Commerce That Offer Mobile Apps	95%	92%	98%	93%	94%	
	% Distribution of Losses Related to Identity Fraud	33% (14% synthetic)	34% (14% synthetic)	34% (13% synthetic)	31% (15% synthetic)	34% (14% synthetic)	
	% Ranking Identity Verification as a Top Online/Mobile Challenge	65%	65%	62%	68%	65%	







For more information: visit https://risk.lexisnexis.com/global/en/financial-services/ fraud-and-identity-management

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