

TRUE COST OF FRAUD APAC

Research Definitions





Research Definitions



Key Findings



Recommendations



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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 Indonesian 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 <u>not</u> include insider fraud or employee fraud

The LexisNexis Fraud Multiplier^{s™}

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





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Study Data



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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 Indonesia market.

	Singapore	Indonesia	Malaysia	Philippines	
Retail	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



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

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Online Channels



Web Browser

Transactions through a computer/web browser



Mobile

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



m-Commerce

Transactions specifically through mobile browser and/ or mobile apps

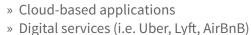






Retailers & e-Commerce Merchants Selling Digital Goods/Services

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 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



Digital Financial Services

Earn 50% or more of revenues through online channels



TRUE COST OF **FRAUD APAC**

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Key Findings







- The cost of fraud for surveyed industries in Indonesia is 3.25 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.
- The mobile channel is contributing to fraud risk among surveyed industries in Indonesia.
 - This includes both mobile web browsers and mobile apps.
- Customer identity verification is a key issue for online channels.
 - Synthetic identities and botnet attacks are contributing factors.
- 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 4.01 times the amount of the lost transaction value, totaling fraud costs that are 1.78% 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.
- Businesses across surveyed industries are not optimally fighting fraud.
- » Half do not track successful fraud transactions by both channel and payment method. Additionally, an average of 48% of flagged transactions continue to be sent for costly and time-consuming manual reviews.
- 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 and Geolocation is very limited.



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1 The cost of fraud for surveyed industries in Indonesia is 3.25 times the lost transaction value.





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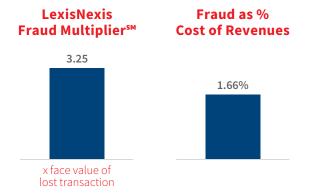


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The LexisNexis Fraud MultipliersM is 3.25 across surveyed industries.

- This means that for every fraudulent transaction, the cost to Indonesian businesses is actually 3.25 times the amount of the lost transaction value. This translates to fraud costs amounting to 1.66% of annual revenues overall.
- » Country-level fraud volumes and costs appear to be driven up, in part, by the Financial Services sector, where volumes and costs are higher.* And whilst anecdotal (given small base sizes), the cost of fraud for Financial Services is directionally higher in Indonesia (3.88 times the face value of the lost transaction) than in the United States (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.¹
- The mobile channel, digital goods sales, and limited use of solutions to address specific threats are part of the reason for higher risks and costs.











^{*} CAUTION: small number of cases, data should be used directionally only

¹ ThreatMetrix® H2 2018 Cybercrime Report

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How is the LexisNexis Fraud MultipliersM calculated?









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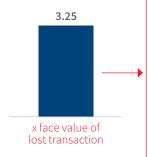
Illustration

Calculating the LexisNexis Fraud MultiplierSM

Description

The total cost for every Rp 1 of fraud, calculated as total losses divided by the amount of fraudulent transactions for which the firm is held liable





Step 1: Obtain average revenue

aud as % of annual revenue from O10 1.66%

Step 2: Obtain fraud as % of annual revenue from Q10

Step 3: Calculate total cost of fraud (Steps #1 x #2)**

Rp 79,842,340,235

Rp 4,809,779,532,243*

Step 4: Obtain % of total losses for lost transaction values (actual values of the fraudulent transactions that

occurred) (Q16)

30.76%

Step 5: Calculate actual value of the fraudulent

transaction that occurred (Steps #3 x #4)

Rp 24,559,503,856

Step 6: Calculate total cost for every S\$ 1 of fraud (total

cost in Step 3) / (value of fraudulent transactions

in Step 5)

\$3.25



^{**}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.

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Contributing factors to fraud in Indonesia.





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Market Conditions

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

- » e-Commerce has rapidly risen because of increased smartphone use. With more than 40% of its population on smartphones, about 70% of internet traffic comes from these devices.²
- » Informal or social commerce accounts for 40% of all digital sales in the country.²
- The number of online sellers in Indonesia has doubled every year for the past three years and reached a total of 4.5 million active sellers in 2017.³
- » m-Commerce grew 39% YOY 2017-2018.4
- » Barriers to secure payment methods; sizeable unbanked population that requires merchants to attract these consumers through alternative payment methods and mobile devices which may not always be secure.

This increases opportunities for cyberattacks & fraud.

- » In 2018, Indonesia had more than 200 million cyberattacks.⁵
- » Ranks #9 on the list of 10 worst botnet infected countries.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://theaseanpost.com/article/rise-e-commerce-indonesia

³ https://www.thejakartapost.com/life/2019/02/09/seven-interesting-things-that-happened-in-indonesias-e-commerce-scene.html

⁴ https://cdn.cms-twdigitalassets.com/content/dam/marketing-twitter/apac/en_gb/insights/mcommerceapac/mobile_commerce_report_sea_2019_edition_final.pdf 5http://theconversation.com/cybersecurity-for-indonesia-what-needs-to-be-done-114009

⁶ https://www.spamhaus.org/statistics/botnet-cc/

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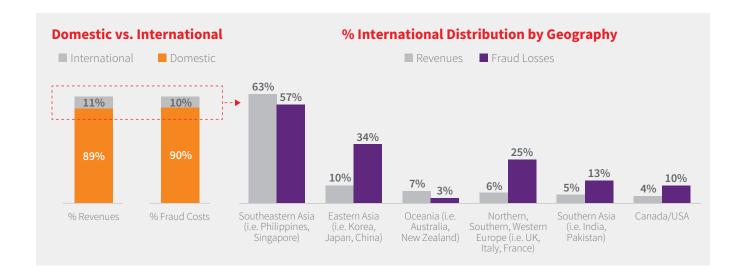


Summary



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

- Where non-Indonesian fraud occurs, a majority comes from other Southeastern Asian markets.
- » There is a disproportionate degree of fraud from Eastern Asia and Northern/Southern/Western Europe 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



7 ThreatMetrix® H2 2018 Cybercrime Report



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





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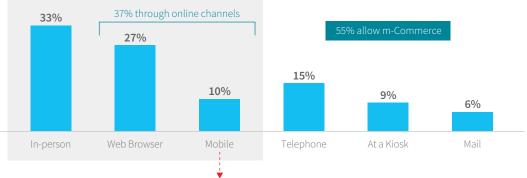


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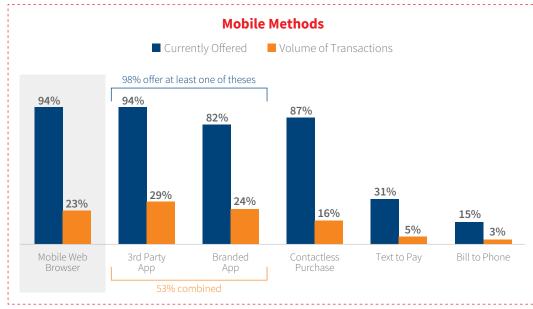


The majority of transactions tend to go through the in-person and online channels.

- » Though average mobile channel transaction volumes are modest compared to other types, m-Commerce experienced a ~39% YOY growth from 2017-2018. Over half of study respondents indicate allowing m-Commerce transactions.
- » Not surprisingly, millennials are driving the m-Commerce sector. Expectedly, millennials are more likely to shop via mobile devices, than are older generations.8
- » Of businesses offering m-Commerce, the largest share of transactions occur through branded and 3rd party mobile apps, 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 of this.



Average Distribution of Transaction Volume Across all Channels





⁸ https://cdn.cms-twdigitalassets.com/content/dam/marketing-

⁹ https://www.appsflyer.com/resources/the-state-of-mobile-fraud-q1-2018/

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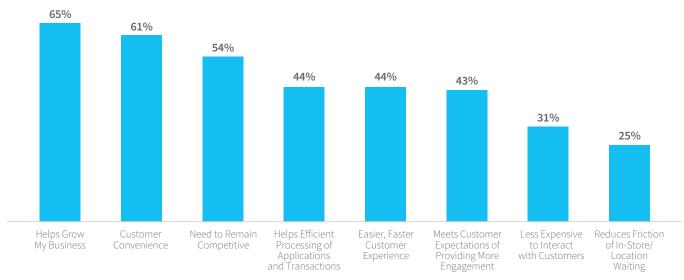


Summar



But, mobile channel risk appears to be an accepted trade-off for business grow.







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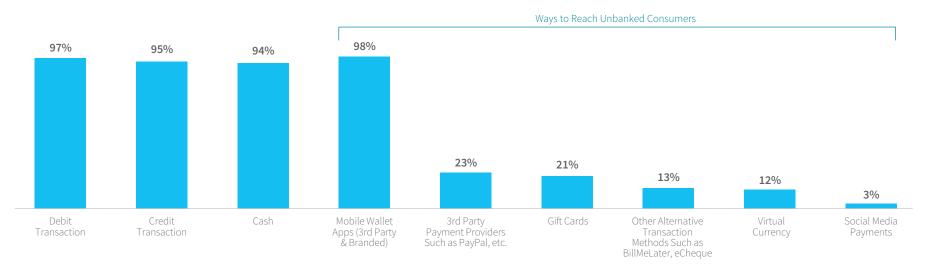


Traditional payment methods are largely accepted (credit, cash, debit cards), but so too are mobile apps, as businesses strive to reach unbanked customers.

- » Less than half of Indonesians are reported to have a bank account, and only 2.4% are reported to have a credit card. Although 56% percent of all Indonesians inhabit large cities and are increasingly living their lives on mobile devices, the other half reside in rural areas and are scattered across 17,000 islands, where cash remains a primary medium of exchange. But with more and more of Indonesia's 180 million unbanked now using smartphones, a wave of new fintech startups are attacking the space in order to provide them with mobile money and Financial Services. 10
- » Additionally, informal or social commerce is on the rise. This involves the buying and selling of goods through unofficial means, such as the use of social media and messaging platforms (WhatsApp and Facebook). Unlike in many other countries especially in the West informal or social commerce appears to be thriving in Indonesia.¹¹

% of Organizations that Accept the Following Types of Payment Methods: Among Those with Mobile Channel Transactions*

(*Not necessarily used with mobile channel transactions, since merchants and firms are multi-channel)



10 https://www.forbes.com/sites/eladnatanson/2019/05/14/indonesia-the-new-tiger-of-southeast-asia/#6fcab07576ce 11 https://theaseanpost.com/article/rise-e-commerce-indonesia



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





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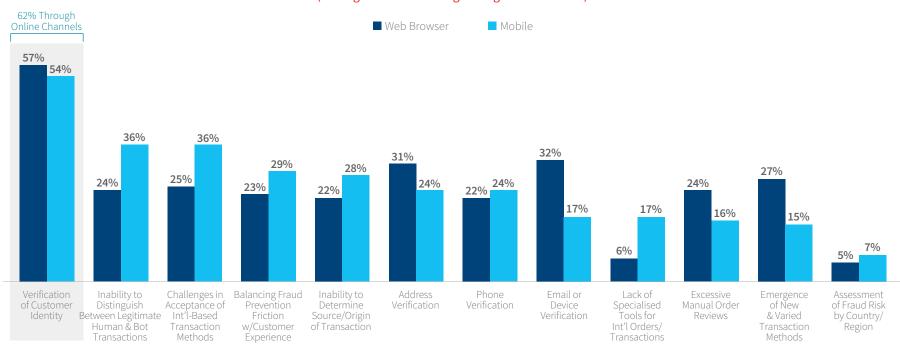


Customer identity verification is a key challenge in online channels.

- The sheer growth in Indonesia's internet economy and mobile transactions undoubtedly contributes somewhat to difficulties in determining if provided information is associated with the identity of a real person.
- Inability to distinguish between human and bot transactions and challenges related to acceptance of international-based transaction methods are also challenging for the mobile channel, whilst address verification and email/device verification are somewhat more challenging for the online channel.

Top 3 Challenges Related to Fraud When Serving Customers Through...

(among those transacting through each channel)





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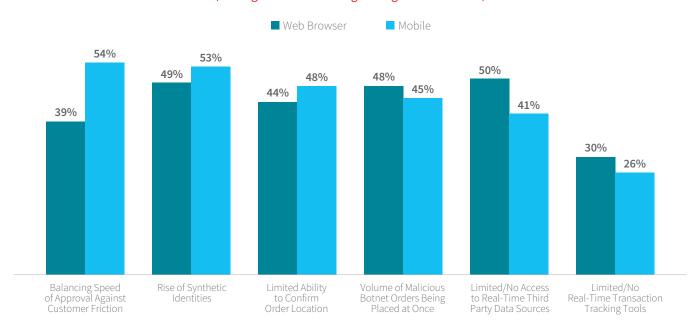


Key factors that interfere with effective customer identity verification include balancing speed of approval against customer friction, the rise of synthetic identities, limited ability to confirm order location, and volume of malicious botnet orders.

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 2018.¹²

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

(among those transacting through each channel)



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



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Key Findings







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 information from either:



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

Focus on nurturing the identity to mimic a good customer; establishes good credit, pays on-time, etc. before "breaking bad"

Difficult to detect with traditional identity verification / authentication solutions

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.

Real customers don't help; behaviours make it difficult to spot anomalies with current ID solutions.

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.



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Many across surveyed industries believe that reducing fraud can help increase revenues and customer loyalty.

- However, there are also expectations that e-gift card fraud will continue to rise, that the mobile channel adds fraud risk, and that fraud is inevitable.
- » In 2018 alone, Indonesia experience more than 200 million cyberattacks.¹³
- This underscores the importance of businesses implementing effective fraud mitigation solutions.





¹³ http://theconversation.com/cybersecurity-for-indonesia-what-needs-to-be-done-114009

^{*}Asked only of Retail/e-Commerce selling digital goods

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Summary



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





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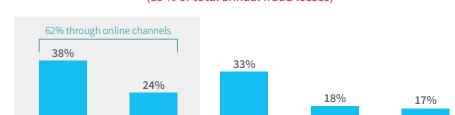


Summary

A large share of fraud, approximately 62%, 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 shows that fraudsters are targeting them, often through click flooding and botnet attacks.

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







¹⁴ ThreatMetrix® H2 2018 Cybercrime Report

^{*%} can add to more than 100% since answers based on using a channel

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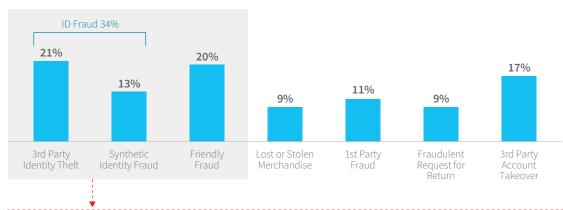
Summar

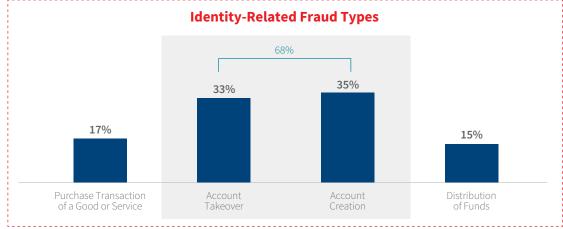


With so much of fraud occurring through online channels, it's not surprising that approximately 34% of fraud losses are due to identity fraud (3rd party/ synthetic identity) alone.

- » 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

% Distribution of Fraud Losses by Method





15 Ibid.



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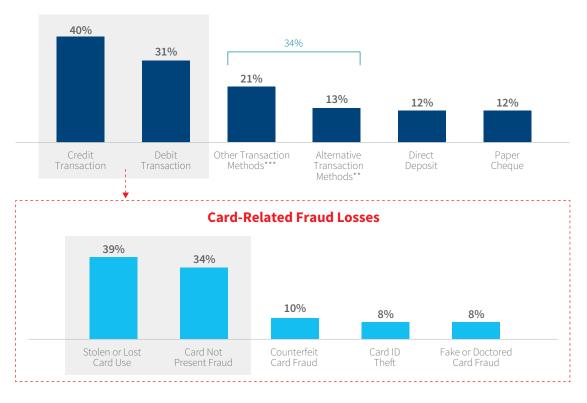
Summary



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

- Credit and debit fraud crime is a concern. Much of this type of crime involves dishonest employees of smaller businesses and restaurants copying details of a card or swiping it through a skimmer. This enables them to copy credit card information and make fraudulent cards with valid credit card numbers. 16
- » Not surprisingly, then, stolen card and CNP make up the majority of fraud losses.





16 https://www.osac.gov/Content/Report/ca756e6a-ce5e-403b-a85e-15f4aeab5362



^{*%} can add to more than 100% since answers based on whether using a channel

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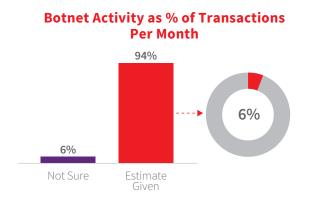


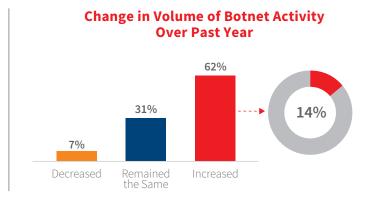


62% of businesses across surveyed industries have experienced

an increase in automated botnet activity during the past year.

This is a growth of 14% of transactions on average.







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The combination of these factors contribute to increased risk.





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Mobile

- » Rise of mobile botnet attacks; malware infects devices without consumer knowledge; steals identity, hacks accounts, makes fraudulent purchases¹⁷
- » 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 authentication¹⁸; "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.
- readit 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.

17 Ibid.

18 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



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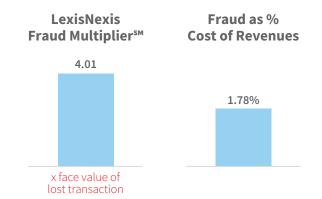
Summary



This results in higher volumes and cost of fraud for businesses that offer m-Commerce.

- Every **fraudulent transaction** actually costs these businesses **4.01 times the value of lost transaction**. This is higher than the average across organisations (3.25) overall.
- This channel also experiences a higher number of successful fraud transactions that involve higher average values.

Among Businesses Offering m-Commerce









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

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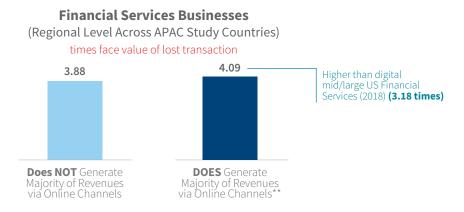


Regionally, those that are "digital" have even higher risks and costs associated with fraud, which tends to overlap with m-Commerce.

- » For digital Retailers, e-Commerce merchants, and Financial Services businesses, identity verification becomes a challenge and a risk.
 - » For retailers/e-Commerce merchants, speed and type of transaction are the issue. Digital goods/services involve more immediacy of distribution/downloading; whereas merchants that sell physical goods have a delivery address for shipping and a buffer time between transaction and shipment to confirm identity and legitimacy of the sale, this is not the case for those selling digital goods. There is more real-time need for fraud detection efforts.
 - » For Financial Services businesses, the anonymity of the channel itself makes identity verification much more difficult.
 - » And, with all segments, devices (computers, tablets, mobile phones) can confuse things with spoofing and malware.
- » Across industries, those that are digital get hit with a higher cost of fraud.

LexisNexis Fraud MultiplierSM





^{*}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



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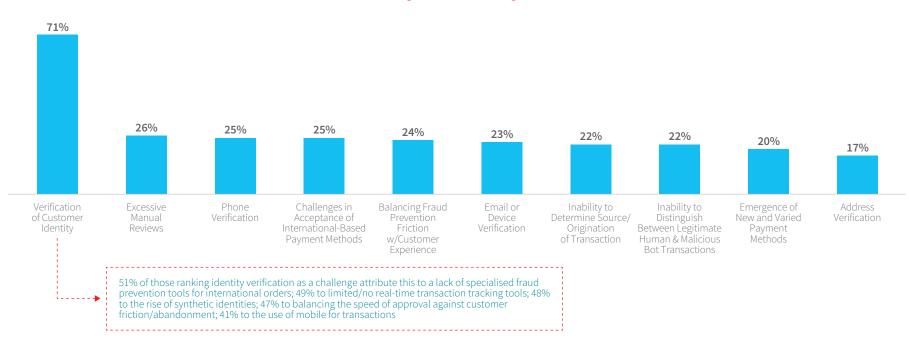


Regionally, risk verification is the most common challenge for Omni-Retailers and e-Commerce merchants that sell digital goods/services.

Various factors contribute to difficulties with customer identity verification, including lack of specialised fraud prevention tools for international orders or for real-time tracking, the rise of synthetic identities, balancing the speed of approval against customer friction, and the use of the mobile channel (where attack rates are on this rise).

Top 3 Challenges Related to Selling Digital Goods & Services

(Regional Level Findings)





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





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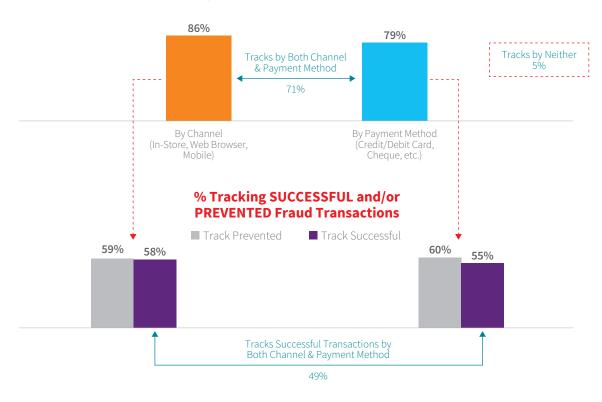
Summary



A majority are reportedly tracking fraud costs by channel <u>and</u> payment method.

- However, significantly fewer appear to be tracking successful fraud transactions by both channel and payment method.
- It is important to track successful and prevented fraud by both channel and payment method to understand weak points; fraudsters will keep testing for ways to breach systems.

% Businesses Tracking Fraud Costs by Channel and/or Payment Method





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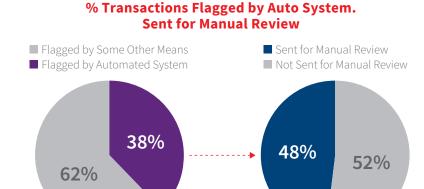
Recommendations

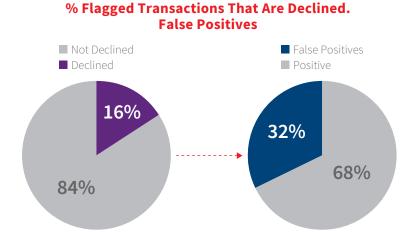


Summar

Less than 40% of transactions are flagged by an automated system.

- » And among those that are, nearly half are sent for manual review.
- » Unfortunately, manual reviews aren't preventing false positives, with nearly 1 in 3 transactions (32%) declined in error. This has revenue and longer-term customer relationship consequences.









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6 The use of more advanced fraud mitigation solutions is limited.





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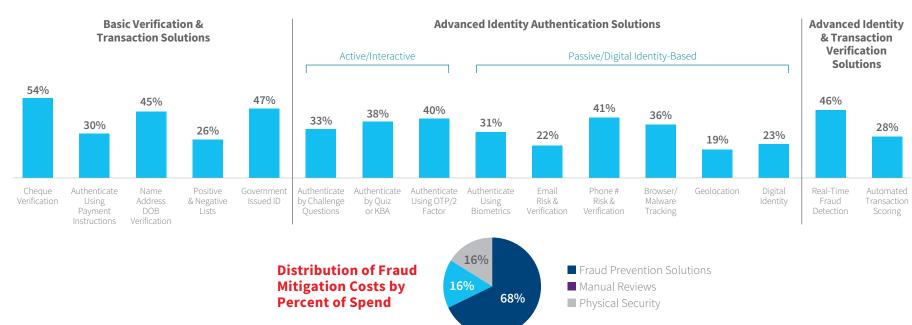
Summary



An average of 5.6 fraud mitigation solutions are being used 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 behavioral 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 detection), this suggests some layering of solutions for more effective fraud detection. However, there is still a significant portion of merchants/businesses who are not doing so.
- » The use of solutions to address mobile threats (digital identity, geolocation) is very limited. And whilst solutions are a sizeable portion of fraud mitigation budgets, manual reviews are nearly one-fifth of costs, further suggesting that current fraud prevention attempts are lacking.

Fraud Mitigation Solutions Use (Avg. 5.6 Solutions Used)





TRUE COST OF FRAUD APAC





Research Definitions



Key Findings



Recommendations



Summary



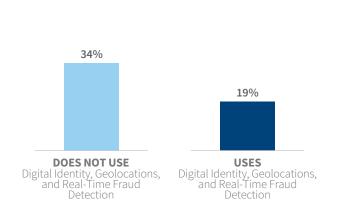
But it's not just about the number of solutions. It's important to layer the right combination to meet threats from specific types of channels and transactions.

- » 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.

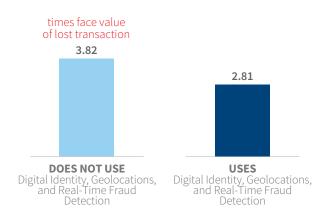
Businesses That Allow Mobile Transactions

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

% of False Positives



LexisNexis Fraud MultiplierSM





TRUE COST OF FRAUD APAC





Key Findings







Fraud has become more complex; various risks can occur at the same time with no single solution. Fraud tools need to authenticate both digital and physical criteria as well as both identity and transaction risk.





Fraud Issues

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

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

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

Solution Options

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 transaction scoring; automated transaction scoring)

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; device ID / fingerprinting)

Device assessment: uniquely identify a remote computing device or user (Solution examples: device ID / fingerprint; geolocation)



TRUE COST OF FRAUD APAC

Recommendations





Research Definitions



Key Findings



Recommendations



Summar



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.





TRUE COST OF FRAUD APAC

Recommendations





Research Definitions



Key Findings



Recommendations



Summar



Multi-Layered Fraud Defense is Required

- » Single point protection is no longer enough and results in single point of failure.
- 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.
- 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.





TRUE COST OF FRAUD APAC

Recommendations





Research Definitions



Key Findings



Recommendations



Summar



Improve Decisioning With Machine Learning

- » Employing machine technology will further reduce fraud mitigation costs and manpower by adapting to changing customer behaviors over time.
- Organisations that have existing fraud detection policies can test different machine learning models until they find one that best aligns with their business objectives.
- » 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.





TRUE COST OF FRAUD APAC

Recommendations





Research Definitions



Key Findings



Recommendations



Summary



Creating an Industry Alliance is a Great Option

- » Organisations are likely fighting against the same group of fraudsters. In fact, fraud patterns and risks share many similarities across industries and geographies.
- » 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:
 - » Historic blacklisted devices
 - » Mule accounts and associated fraud strategies
 - » Specific risks pertaining to industry/use case/geography





TRUE COST OF FRAUD APAC

LexisNexis® Risk Solutions can help





Research Definitions



Key Findings



Recommendations



Summary



LexisNexis® Risk Solutions:



Vast Data Resources





Big Data Technology





Linking & Analytics





Customer-Focused Solutions

Identity Verification

LexisNexis® Risk Solutions provides powerful identity verification, identity authentication and transaction scoring tools to combat fraud.

- » 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 quizzes
- » 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



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Research Definitions



Key Findings



Recommendations



Summary



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 sM	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	Rp 5,904,101	Rp 4,794,415	Rp 4,950,909	Rp 6,871,520	Rp 7,383,683	Rp 4,196,891
% 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%



TRUE COST OF FRAUD APAC





Research Definitions



Key Findings



Recommendations



Summary



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

- » Digital goods account for nearly a half of Retail/e-Commerce fraud losses, 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.
- » 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 ^{s™}	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	Rp 5,676,473	Rp 4,054,624	Rp 14,511,285	Rp 4,310,705	
% 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%				



TRUE COST OF FRAUD APAC

Fraud is also sizeable across APAC countries.





Research Definitions



Key Findings



Recommendations



Summary



	Region	Country				
	Overall	Singapore	Indonesia	Malaysia	Philippines	
LexisNexis Fraud Multiplier ^{sм}	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%	
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	Rp 5,904,101	Rp 6,003,689	Rp 6,074,822	Rp 6,430,491	Rp 5,064,723	
% 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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