The Dummy Handbook on ACCOUNT PROTECTION

Online accounts used to be just for identifying email users and granting them access to their inboxes, but nowadays they have become such an integral part of modern life that it is hard to think about a world without them. Today, the average person is said to have more than 100 online accounts that unlock access to a plethora of services, including social media, ecommerce sites, news subscriptions, ridesharing services, cloud storage, financial services, and an ever-expanding et cetera. The fact that virtually every online service requires the creation and use of an account or profile by

each of its customers makes account protection a priority for modern financial institutions and

ecommerce firms. In fact, account fraud can affect a very wide variety of businesses, including financial institutions, retailers, social media networks, review platforms, and even government agencies. It is also often only the beginning of a series of criminal activities, as fraudsters may use these accounts for different purposes depending on the service they are attacking and other relevant factors. This condensed handbook provides an overview of the different types of account fraud, the techniques used by criminals to perpetrate them, and some action items that companies can take to

protect their customers' accounts and their own bottom lines.

. < ACCOUNT OPENING >

Account opening fraud can be defined as any attack or criminal activity that targets the customer onboarding process with the purpose of creating fraudulent or false accounts. In what is also known as account onboarding fraud, criminals will use stolen, false, or synthetic identities to gain an entry point and pose as a business' legitimate customers. These are a few of the ways in which criminals use false accounts at different types of services:

FRAUD

Social Media Criminals use false accounts to spread disinformation.

eCommerce Criminals use false

accounts to order

Review Sites

Criminals use false accounts to

create fake

goods with stolen credit cards. reviews for hire. Cryptocurrency **Exchanges Banks** Criminals use Criminals use false accounts to false accounts to exploit user launder money. referral 血 promotions. Government **Agencies** Criminals use false accounts to apply for benefits DID YOU KNOW?

found

95 MILLION

fake accounts in 2021

fake accounts in 2021

took down

1.3 BILLION

Bots and Mass Registrations As is the case with other forms of fraud, criminal groups often use bots and other advanced technological means in their activities. In this specific case, these techniques are used to mass register accounts and exponentialize the size of the damage they inflict.

For example, fintech companies offering new account creation incentives or promotions with the intention of attracting new customers who will then contribute to their revenue might be wasting valuable resources. Fraudsters often use bots and false or stolen identities purchased in batches by the thousands to mass register accounts, obtain the promotional bonuses, and then abandon the



dealt with

20 MILLION

fake accounts in 2021

Dormant Accounts and Money Mules These so-called dormant accounts are a widespread issue because they could also be used for

accounts.

any damage.

limited information.

80%

60%

Source:

someone else. Criminals recruit money mules and use false accounts to help launder proceeds derived from online scams and frauds or crimes like human trafficking and drug trade. Money mules add layers of distance between crime victims and criminals to make it harder for law enforcement to accurately trace money trails.

Anti money laundering and counter terrorism financing laws and regulations worldwide carry severe

According to the FBI, money mules are people who transfer illegally acquired money on behalf of

money laundering and muling. Since they are highly regulated businesses, this is especially trouble-

some for financial services firms such as banks and brokerage firms.

penalties and fines and they should be taken seriously.

Fighting Account Opening Fraud

The first step towards a robust account opening protection strategy is to recognize that identity validation measures are not enough to solve such a complex problem. When an account opening is authorized solely based on whether or not the applicant has provided an identity (i.e. an SSN) that can be validated with a trusted third party (i.e. a credit bureau), companies might be taking fraudsters' words at face value and neglecting to use evidence to truly single them out from good customers. Fortunately for everyone (but criminals, of course), technology has come a long way and advanced

fraud prevention strategies allow businesses to spot fake accounts and block them before they inflict

Early detection Is critical, and DataVisor's solutions detect fraudulent activity in real time, the moment an account opens, stopping the process before any damage occurs. They leverage UML to holistically

analyze digital fingerprints, metadata and more, and enable accurate decision-making, even with

Not only does DataVisor capture up to 99% of fraud attempts, but it also does so fast and early. DataVisor stops the vast majority of fraud at the registration point to prevent downstream damage

and delivers continuous protection throughout the account lifecycle:

openings detected before the disbursement of promotions.

teams to make bulk decisions to thwart coordinated, large-scale attacks.

Fraud Per Event / Fraud Detected 100%

Share of Total Fraud Detected 40% 20% 0% Registration Verification Login Transaction

Read this success story about a leading fintech that left behind ACH Fraud, ATOs, Fake Accounts, and Policy Abuse to focus on its mission with serious results, including 92% of fraudulent account

DataVisor's solutions deliver immediate ROI because they don't rely on historical data or labels. Using linkage analysis, they can detect groups of fake accounts simultaneously, enabling fraud and risk

Type of Event



Below are a few of the ways in which criminals use stolen accounts at different types of services:

Social Media Criminals take

request ransom from their owners.

eCommerce Criminals take over

orders using stored

credit cards.

Banks Criminals take over

accounts and drain the funds with

Email

Accounts

Criminals take over accounts to steal

valuable information

victims.

Cryptocurrency **Exchanges**

> Criminals take over accounts and drain

the tokens stored in

unauthorized ACH the associated Government transactions. Agencies Criminals take over accounts assistance programs.



browsers are infected to modify web page content, often to manipulate financial transactions in

Regardless of how credentials are compromised or stolen by fraudsters, they are then used to

Session hijacking, which can also be called **cookie hijacking**, is an attack where a computer session key is attacked to gain unauthorized access to information. Cookies can be stolen to authenticate

recycling passwords (especially with the same username in different sites), not sharing passwords with others, and not writing down passwords. Multi-factor authentication can be an effective tool, but it has important drawbacks that need to be considered before implementing. Specifically, multi-factor authentication measures introduce a substantial degree of friction to customer experiences, which can lead to issues like user attrition and shopping cart abandonment. Given these considerations, companies should look carefully before implementing two-factor authentication measures and consider only requiring them for certain

Source: https://www.pymnts.com/authentication/2022/how-behavioral-analytics-can-prevent-new-account-fraud/ Are you curious about how you can improve account

security at your organization? A fraud specialist can answer any

other customer interactions to effectively detect anomalous or suspicious activity and act on ATO

prevention today

About DataVisor

laundering activities as they happen in real time. Its patented unsupervised machine learning technology, combined with its advanced device intelligence, powerful decision engine and investigation tools, provides

DataVisor is the world's leading Al-powered Fraud and Risk Platform that delivers the best overall detection coverage in industry. With an open SaaS platform that supports easy consolidation and enrichment of any data, DataVisor's solution scales infinitely, enabling organizations to act on fast-evolving fraud and money

DATAVISOR

DATAVISOR

Credential Theft This type of cybercrime occurs when someone steals the customers' login information (username and password) to sell them or use them to commit fraud. Criminals often deploy social engineering attacks to steal their victims' credentials. These include phishing strategies where they send emails, calls or other messages pretending to be legitimate businesses or authorities in order to induce individuals to reveal their personal information such as passwords and credit card numbers. In other instances, criminals attack the data repositories that keep user credentials at specific companies. This instance of cybercrime is called a data leak and can be used to steal from accounts at the affected companies and at others since users often repeat usernames and passwords for different sites and accounts. In fact:

commit fraud attacks which vary depending on the respective type of account. Another relevant aspect of account takeover attacks is that there is often a very long lead time between the moment where the credentials are compromised and when the actual attack is perpetrated, thus consummating the criminal activity.

account safety.

Stopping Account Takeover Attacks

users on a remote server.

internet banking.

Companies should promote password best practices to make things harder for fraudsters. Such efforts should include deploying strong password requirements and sharing information with users about the importance of good password hygiene. This implies changing passwords regularly, not

True ATO prevention requires a holistic approach where users and companies cooperate to promote

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guaranteed performance lift from day one. For more information on DataVisor:

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events (i.e. very large transactions) or for situations where an account takeover attack is suspected (i.e. after several failed login attempts). Thankfully, other options exist. Machine learning is especially useful to detect and stop account takeover attempts before their effects materialize. Instead of using high-friction authentication measures to stop ATO attempts, DataVisor uses artificial intelligence to analyze web session logs, cross-account linkages, digital fingerprints, profile details, and account behaviors to surface even the most stealthy fraud patterns without damaging the UX for good customers. Digital businesses should make sure that their fraud teams are armed with tools that allow them to leverage their users' behavioral information to fight account takeovers. It is possible to uncover suspicious accounts and coordinated fraudulent registrations early in the incubation stage by spotting similar attributes and behaviors across accounts without requiring prior labels on the data. An additional level of account protection can be achieved by employing continuous customer event monitoring techniques. Companies should keep track of logins, transactions, password changes, and

questions you may have in a no-pressure environment. Schedule a free consultation session here!

Experience proactive

Al-powered fraud

attempts before they result in financial and reputational damages.