

Beyond Digital Identity

The Next Wave of Fraud Detection

Protecting your business in a world where digital identifiers can no longer be trusted.



IP Address and Location

There has been a long-running arms race between location spoofing and proxy piercing technologies. However, to complicate matters, fraudsters are now leveraging tools that let them appear from a trusted residential IP address connected to a user. Alternatively, they will spoof their IP addresses to appear from a benign source. With location spoofing tools becoming increasingly sophisticated, fraudsters can appear to be transacting from a known or trusted location, undermining a crucial component of digital identity assessments.



Behavior Analytics

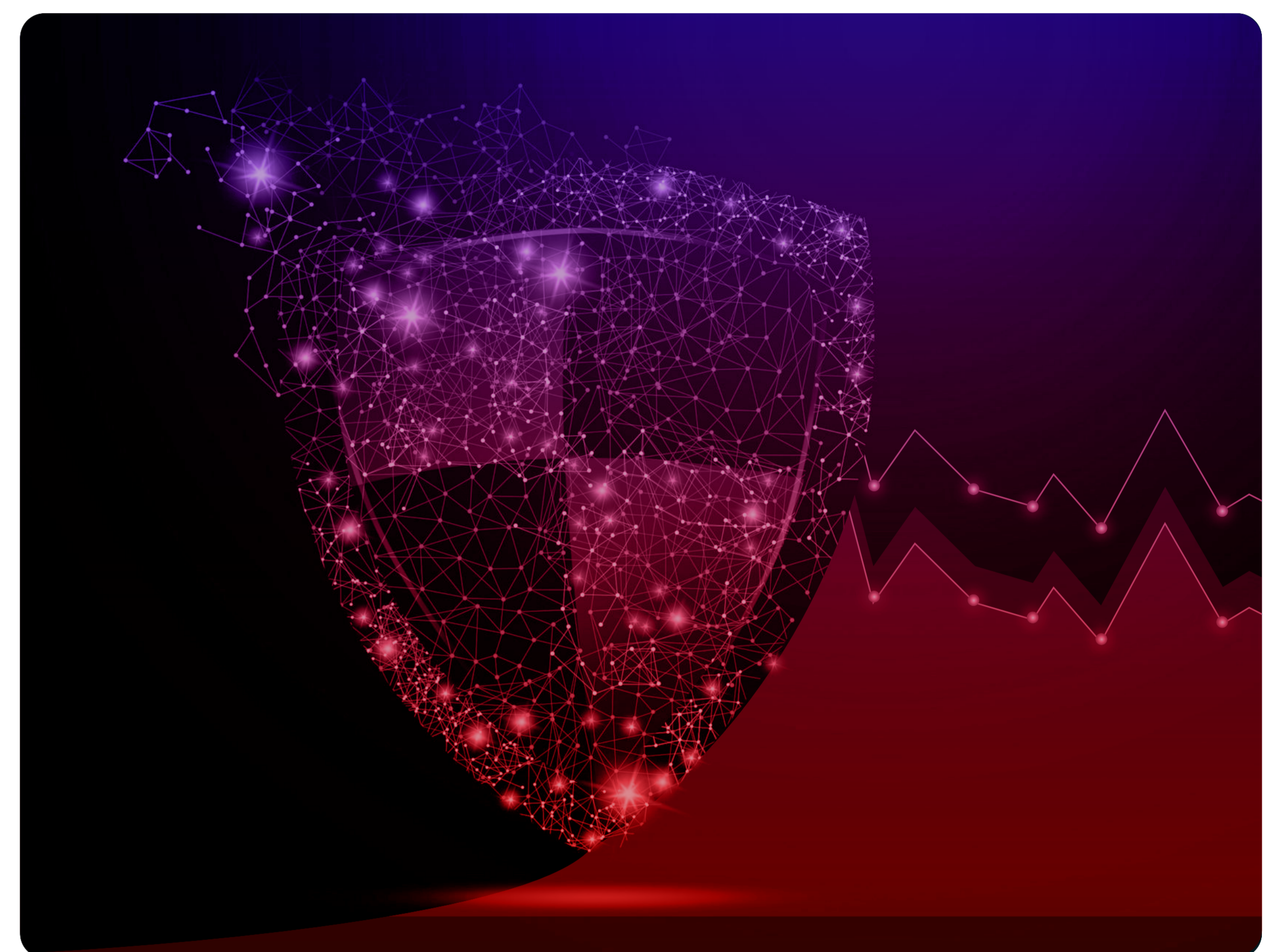
Fraudsters have learnt how to fool behavioral biometrics solutions using sophisticated bots that can mimic human activity. Additionally, targeted attacks by lone fraudsters are supported by previous account takeover attacks, which provide insight into specific user behavior. Gaining insight into the transactional habits and behavioral patterns of an individual provides a more complete picture of a targeted digital identity, and this is used to circumvent anti-fraud controls.

The Impact on Fraud Decisioning

Data-driven decision engines are geared towards extremes, looking for users that display clear 'trust' or 'mistrust' signals. They, therefore, struggle with the new reality in fraud, where digital identities have been corrupted and intent faked.

There is a growing gray area due to unpredictable behavior from good customers and sophisticated spoofing and cloaking techniques from fraudsters leveraging stolen personal data. If one factor is off for a good user, for any number of legitimate reasons, then it can throw off the whole fraud prevention model.

This uncertainty leads to false positives which block legitimate transactions; false negatives where fraudsters successfully execute attacks; or increased levels of friction and manual review which slows down transactions and alienates customers. These ultimately lead to lost revenue, increased fraud losses and spiralling operational costs.



A New Paradigm: Beyond Digital Identity

Rather than businesses playing a constant cat and mouse game with fraudsters, they need a long-term approach to disrupt fraud and put a stop to large-scale attacks. Accurate fraud decisioning must account for the fact that digital identifiers and device information have been hacked and cannot easily be trusted. The next level of intelligence assesses not only static device information, but looks at how the device is interacting with the network to see if fraudsters are using tools to subvert the systems.

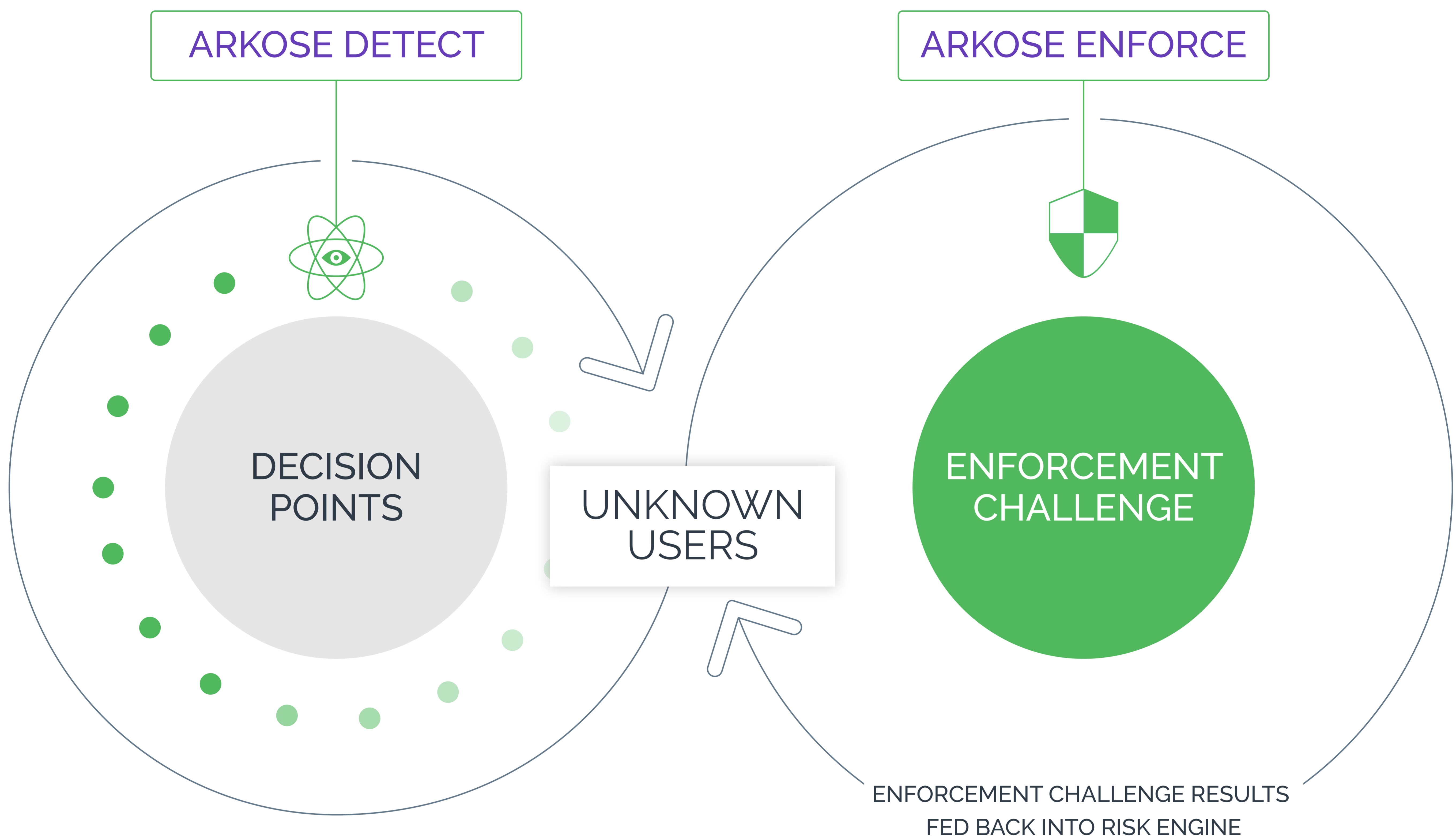
A more robust and accurate approach to fraud detection in this environment is one that combines risk-based decisioning with intelligent step-up to clarify whether or not a good customer's digital footprint has been corrupted by fraudsters.

Arkose Labs provides a risk engine that looks for the most subtle signs of fraud, in the knowledge that some of the big ticket items used in accepting transactions, such as a known device, are not always legitimate. Traffic is then triaged according to its risk profile and suspicious traffic is presented with targeted authentication challenges. The Arkose Labs platform acts as an intermediary platform, shifting the attack surface and taking control away from the attackers. Detailed risk profiling means when step up authentication is required, enforcement challenges are targeted towards suspected fraud types, and tailored towards bots, digital sweatshops or lone fraudsters.

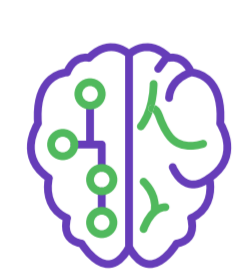


The Arkose Labs Approach

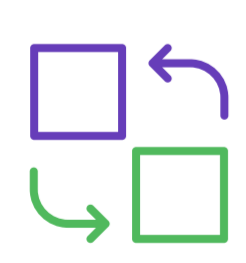
Arkose Detect, an advanced risk engine, does not rely on extremes in data but analyzes in depth and breadth across all parameters. This integrates seamlessly with Arkose Enforce, which provides intelligent step-up authentication tailored towards the risk profile. Arkose Detect and Arkose Enforce work seamlessly together and inform one another for improved future prediction and identification of malicious traffic. Deploying machine learning further sharpens anomaly detection & trains the platform in real-time, with the challenge as the feedback loop.



Key Benefits: The Arkose Labs Fraud and Abuse Platform



Constant feedback loop between risk engine and enforcement makes Arkose Labs the fastest learning fraud platform on the market, specifically geared for constant self-improvement.



Shifts the attack surface from the business to Arkose Labs' independent platform. As a result, fraudsters are no longer attacking their targeted customer touch point but are diverted to intelligent step-up that saps their resources.



Deep analytics to detect sophisticated fraudsters, that factors in the new reality where fraudsters have corrupted digital identities at scale.



Makes attacks more difficult and costly, which disrupts the fraudsters' economic incentive and breaks their business model.



Longer-term solution that stops the cat and mouse game that fraudsters play with businesses.

Delivering Maximum Defense and Greatest User Experience

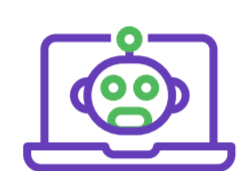
Arkose Detect and Arkose Enforce work together to determine the best authentication workflow and protect against evolving threat patterns. Authentication that is tailored to the risk profile provides the optimal balance between greatest user experience and greatest security.

R I S K P R O F I L E S



Legitimate Consumers

- No challenge for most true users, providing a friction-free experience.
- Humans are never blocked, but when step-up authentication is required this provides the user with an opportunity to prove she is legitimate.
- Challenges are easy and fun to complete, with no negative impact on user experience.



Bot and Automated Attacks

- Targeted step-up challenges root out 100% of automated attacks.
- The Arkose Labs Acid Test introduces uncharacteristic visual data into the challenge-response mechanism, causing automated processes to spontaneously fail.
- Constantly evolving the type of challenge presented prevents fraudsters from scripting past this defense to circumvent at scale.



Digital Sweatshops

- Sweatshop activity is identified using sophisticated profiling and velocity assessments.
- Increasingly complex challenges are presented which waste fraudsters' time and resources, compelling them to abandon attacks.



Lone Fraudsters

- Independent identity verification shifts the attack surface away from the targeted website or app, which the fraudster has had practice attacking.
- The context of the transaction is important in differentiating between a trusted customer and a skilled lone fraudster. Lone actors will concentrate on high-monetization transactions, otherwise they would not get sufficient return on investment.
- Bug bounty program uses ethical hackers to test the platform against skilled lone actors.



Arkose Labs bankrupts the business model of fraud. Recognized by Gartner as a 2020 Cool Vendor, its innovative approach determines true user intent and remediates attacks in real time. Risk assessments combined with interactive authentication challenges undermine the ROI behind attacks, providing long-term protection while improving good customer throughput.

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